Appendix B

GSM 850 & 1900

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1. Effective (Isotropic) Radiated Power Output Data

1.1. Test Result

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	31.25	27.61	38.45	PASS
GSM850	190	---	31.30	27.66	38.45	PASS
GSM850	251	---	31.18	27.54	38.45	PASS
EGPRS850	128	1	26.15	22.51	38.45	PASS
EGPRS850	128	2	24.55	20.91	38.45	PASS
EGPRS850	128	3	22.98	19.34	38.45	PASS
EGPRS850	128	4	21.52	17.88	38.45	PASS
EGPRS850	190	1	26.16	22.52	38.45	PASS
EGPRS850	190	2	24.56	20.92	38.45	PASS
EGPRS850	190	3	22.87	19.23	38.45	PASS
EGPRS850	190	4	21.42	17.78	38.45	PASS
EGPRS850	251	1	26.09	22.45	38.45	PASS
EGPRS850	251	2	24.52	20.88	38.45	PASS
EGPRS850	251	3	22.85	19.21	38.45	PASS
EGPRS850	251	4	21.33	17.69	38.45	PASS

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	29.75	29.88	33.00	PASS
GSM1900	661	---	29.78	29.91	33.00	PASS
GSM1900	810	---	29.66	29.79	33.00	PASS
EGPRS1900	512	1	25.51	25.64	33.00	PASS
EGPRS1900	512	2	23.72	23.85	33.00	PASS
EGPRS1900	512	3	21.96	22.09	33.00	PASS
EGPRS1900	512	4	20.23	20.36	33.00	PASS
EGPRS1900	661	1	25.52	25.65	33.00	PASS
EGPRS1900	661	2	23.87	24.00	33.00	PASS
EGPRS1900	661	3	22.06	22.19	33.00	PASS
EGPRS1900	661	4	20.32	20.45	33.00	PASS
EGPRS1900	810	1	25.23	25.36	33.00	PASS
EGPRS1900	810	2	23.58	23.71	33.00	PASS
EGPRS1900	810	3	21.82	21.95	33.00	PASS
EGPRS1900	810	4	20.14	20.27	33.00	PASS

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Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

2. Peak-to-Average Ratio

2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
GSM850	128	7.88	13	PASS
GSM850	190	7.86	13	PASS
GSM850	251	7.83	13	PASS
EGPRS850	128	10.29	13	PASS
EGPRS850	190	10.41	13	PASS
EGPRS850	251	10.61	13	PASS
GSM1900	512	7.71	13	PASS
GSM1900	661	7.71	13	PASS
GSM1900	810	7.71	13	PASS
EGPRS1900	512	9.71	13	PASS
EGPRS1900	661	9.54	13	PASS
EGPRS1900	810	9.59	13	PASS

2.2. Part II - Test Plots

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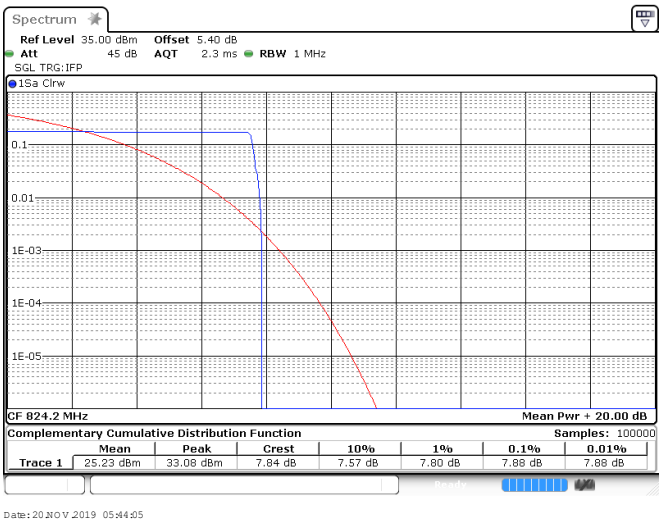

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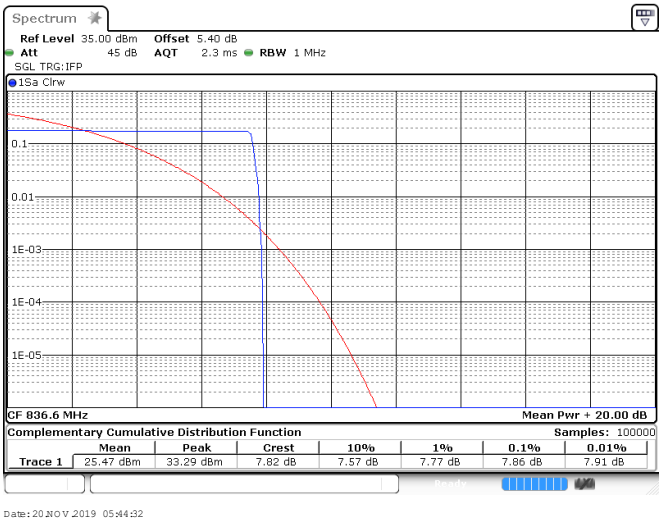

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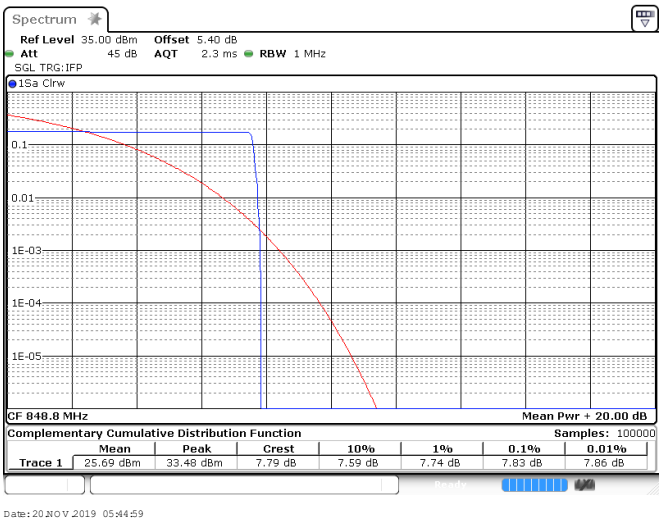

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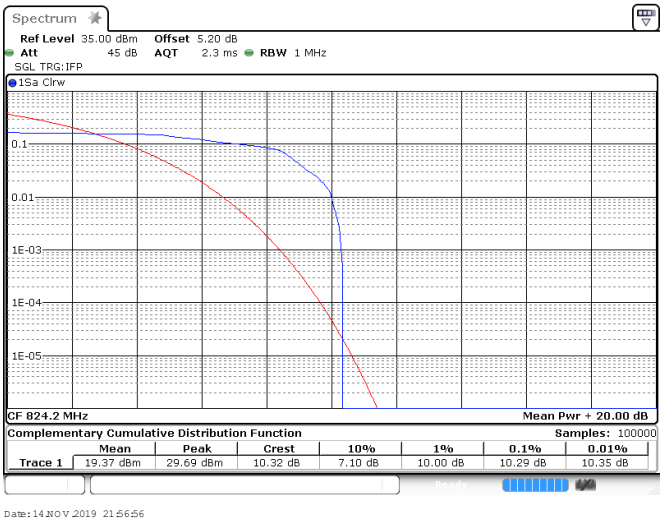

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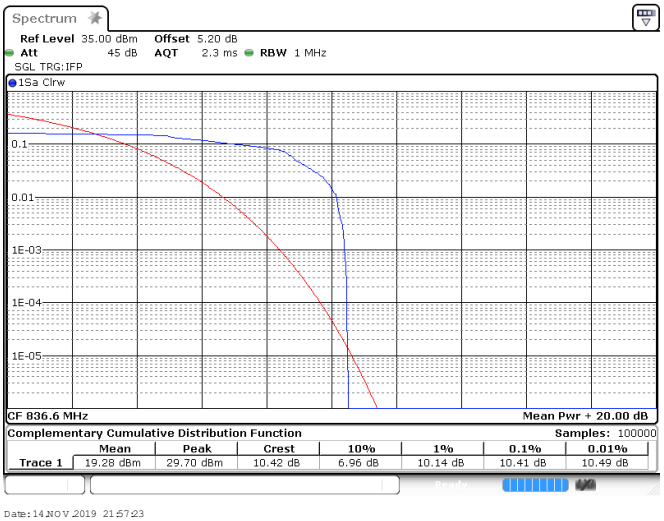

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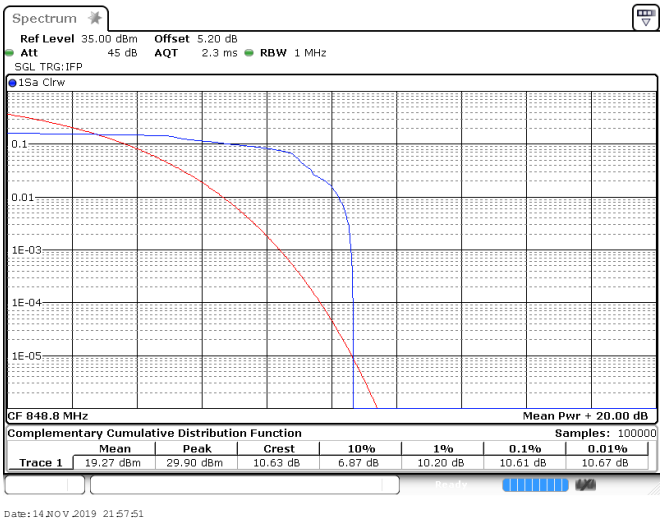

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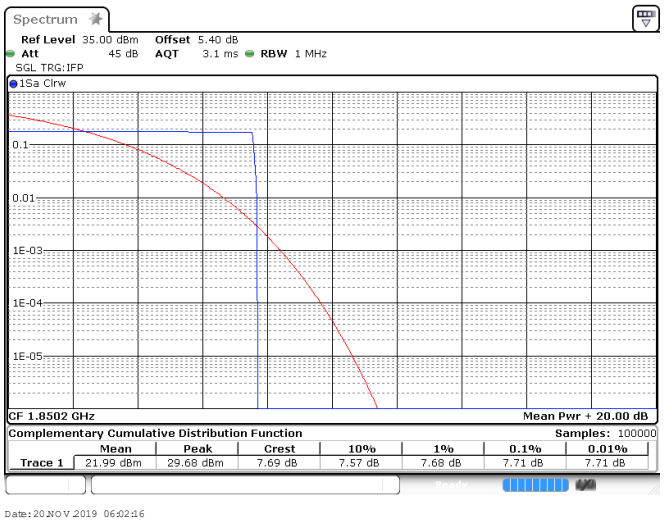

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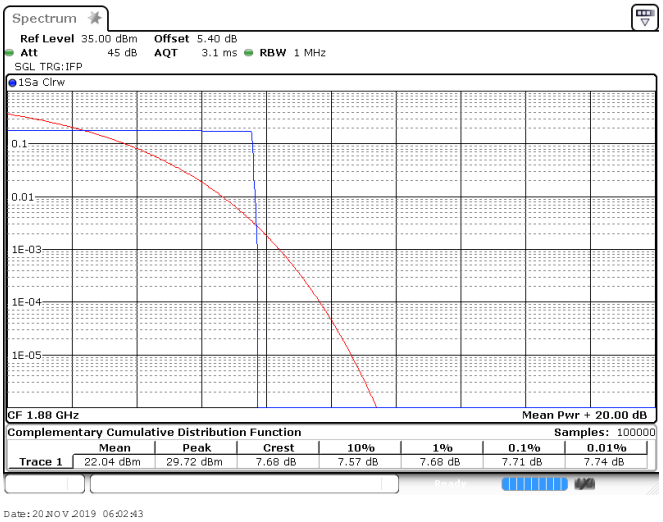

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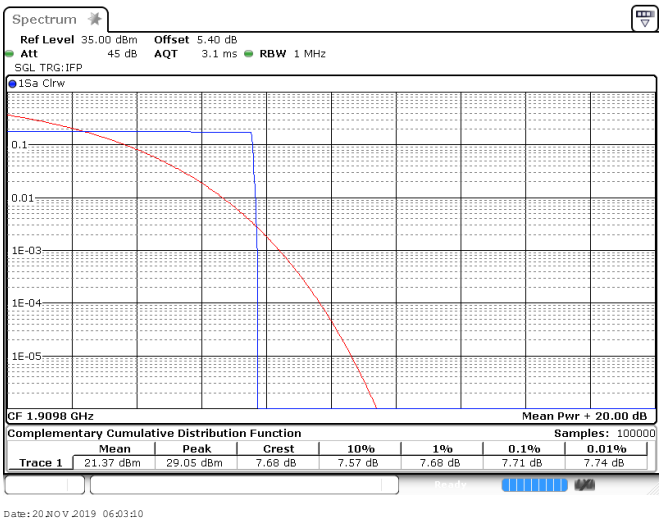

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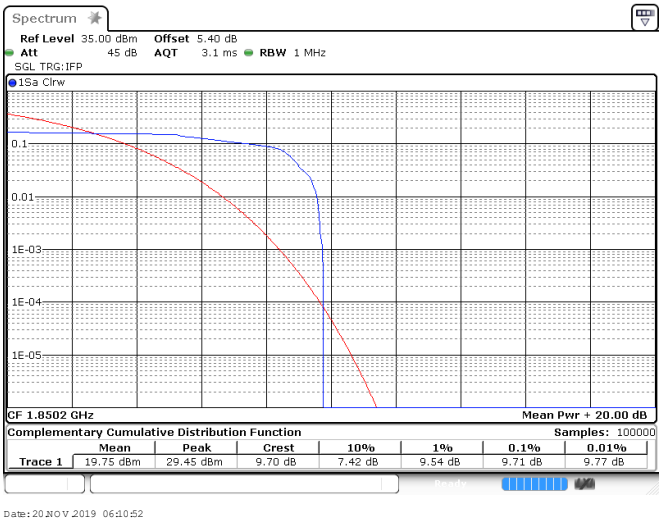

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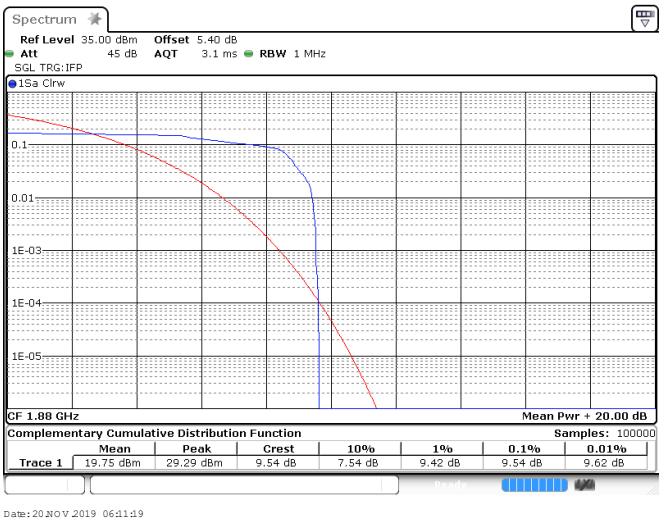

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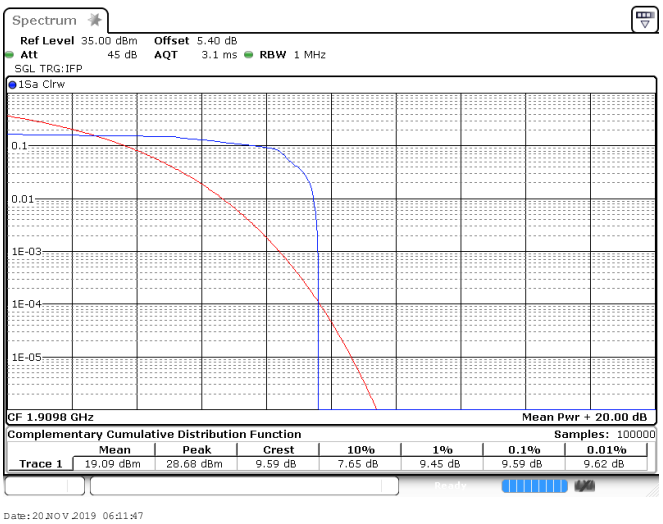

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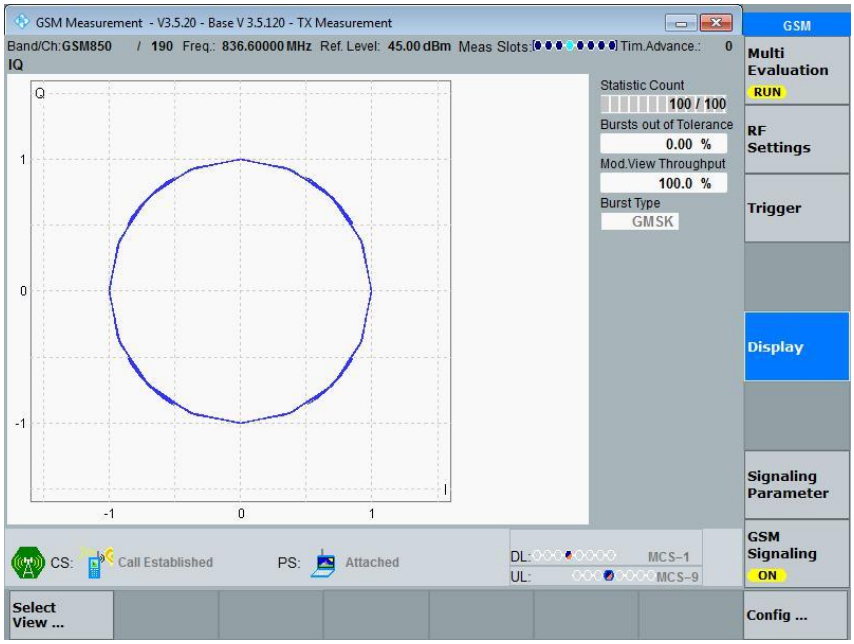
3. Modulation Characteristics

3.1. For GSM

3.1.1. Test Band = GSM 850

3.1.1.1. Test Mode = GSM/TM1

3.1.1.1.1. Test Channel = MCH



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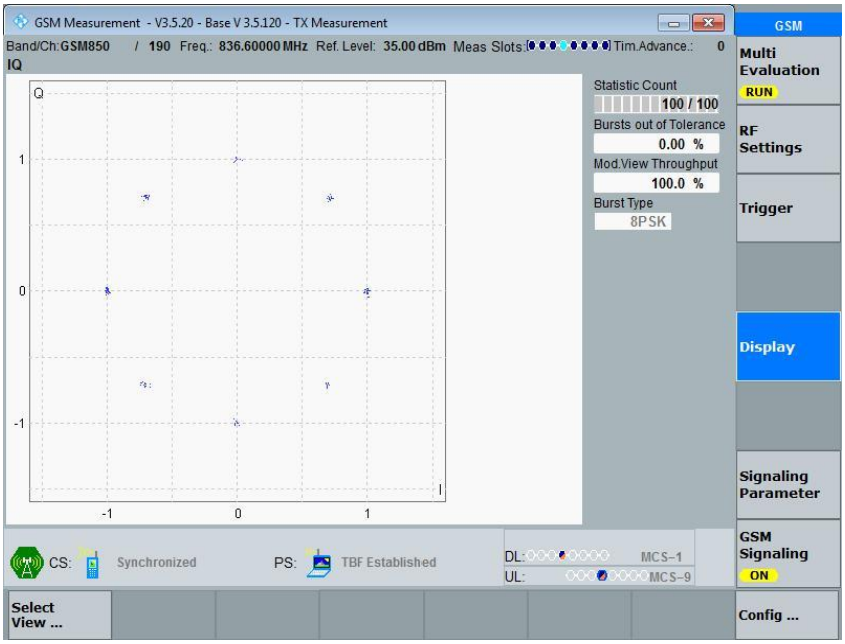
3.1.1.2. Test Mode = GSM/TM2

3.1.1.2.1. Test Channel = MCH



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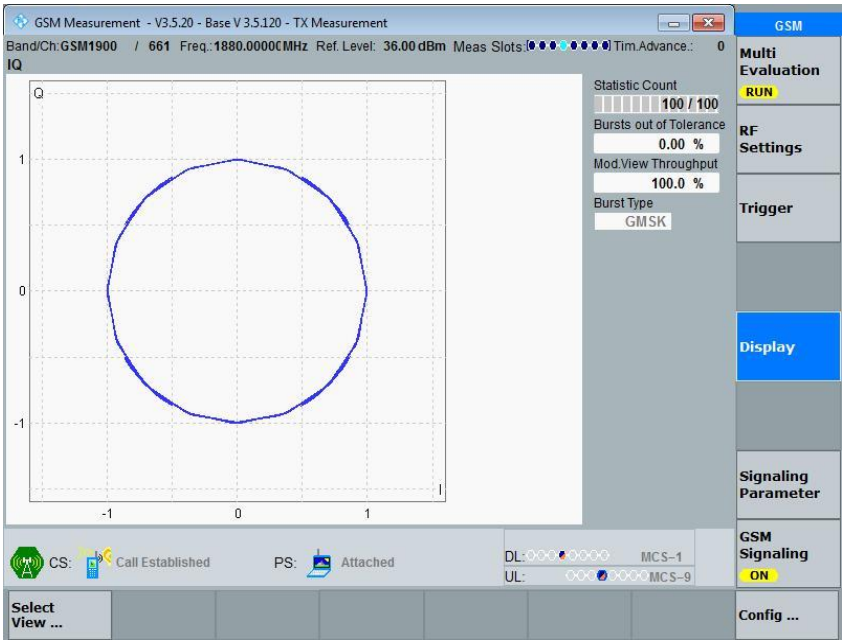
3.1.2. Test Band = GSM 1900

3.1.2.1. Test Mode = GSM/TM1

3.1.2.1.1. Test Channel = MCH



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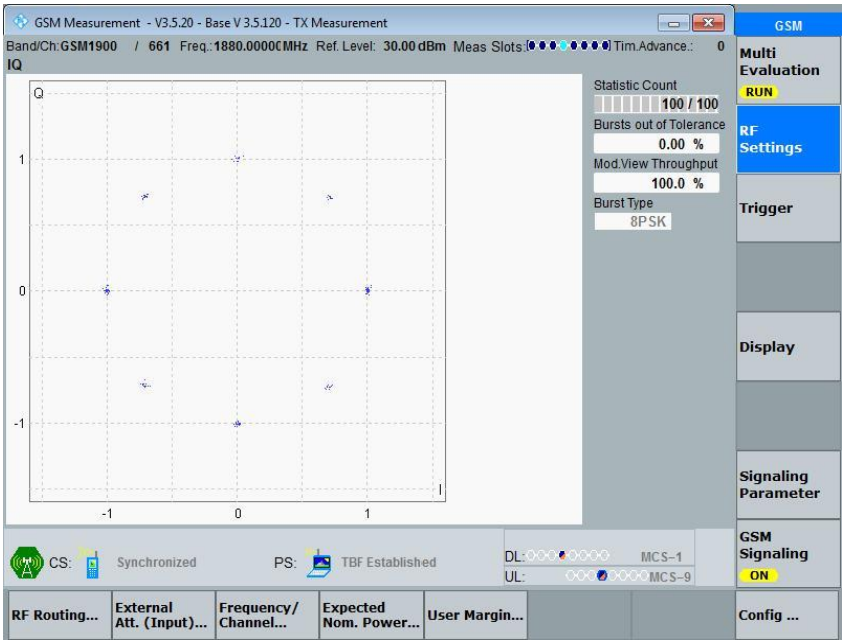
3.1.2.2. Test Mode = GSM/TM2

3.1.2.2.1. Test Channel = MCH



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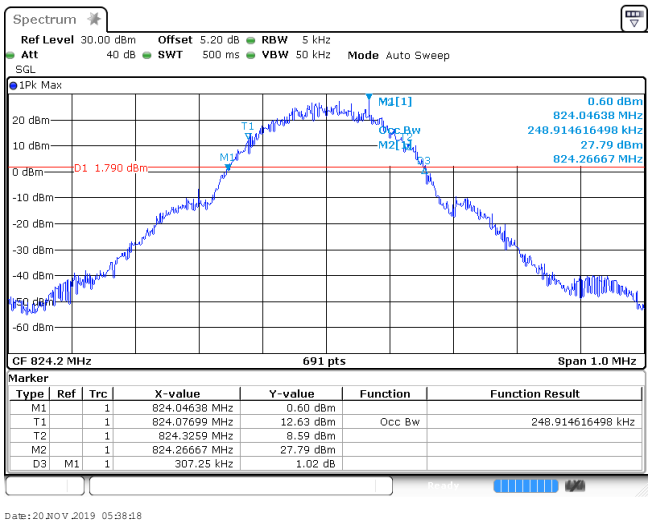
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
GSM850	128	248.91	307.25	---	PASS
GSM850	190	246.02	291.30	---	PASS
GSM850	251	244.57	315.94	---	PASS
EGPRS850	128	251.81	308.70	---	PASS
EGPRS850	190	250.36	307.25	---	PASS
EGPRS850	251	246.02	302.90	---	PASS
GSM1900	512	243.13	313.04	---	PASS
GSM1900	661	247.47	310.14	---	PASS
GSM1900	810	247.47	300.00	---	PASS
EGPRS1900	512	254.70	320.29	---	PASS
EGPRS1900	661	257.60	305.80	---	PASS
EGPRS1900	810	256.15	298.55	---	PASS

4.2. Test Plots

GSM850_128



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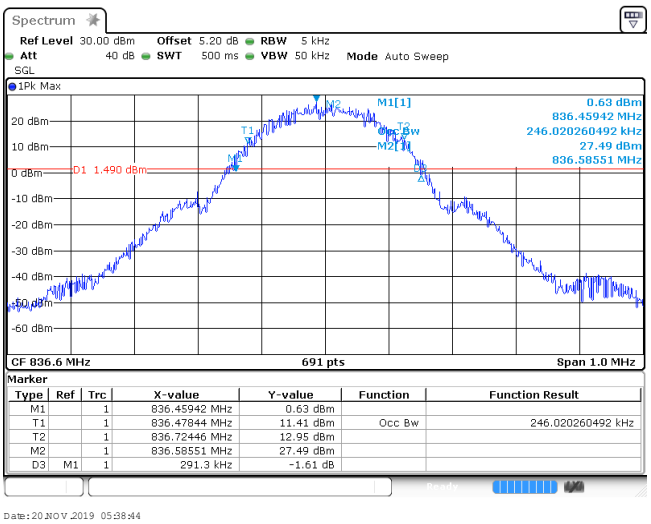

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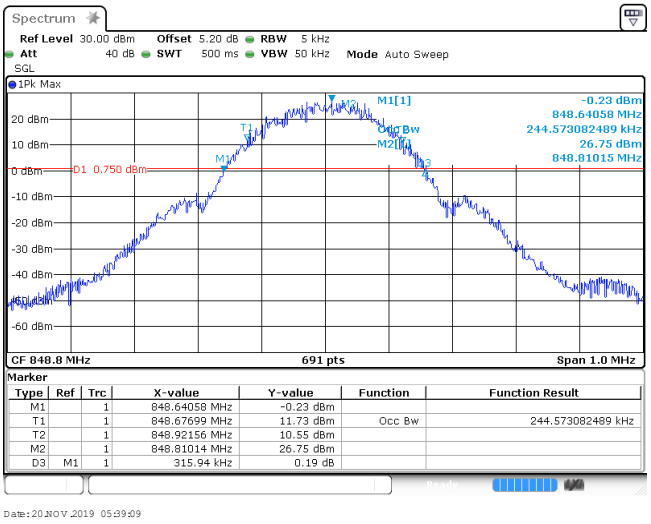

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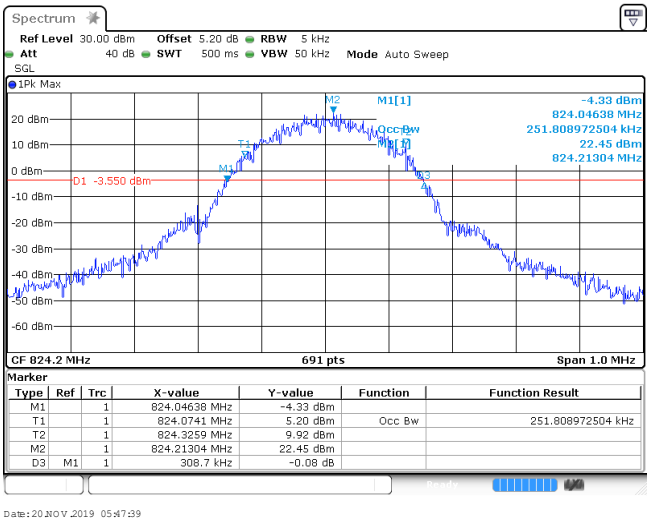

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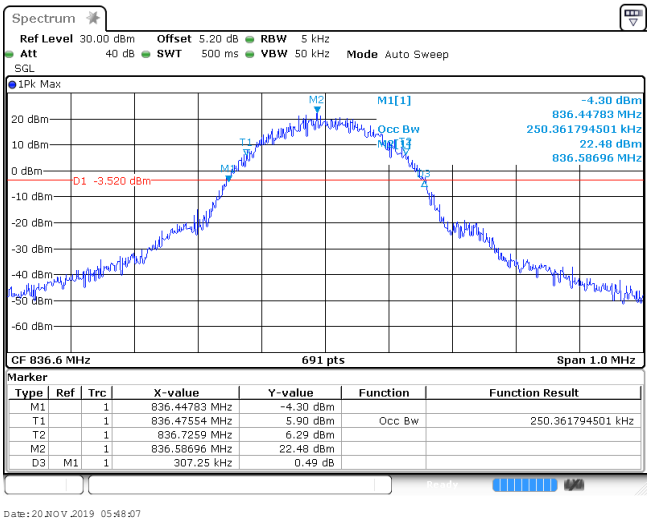

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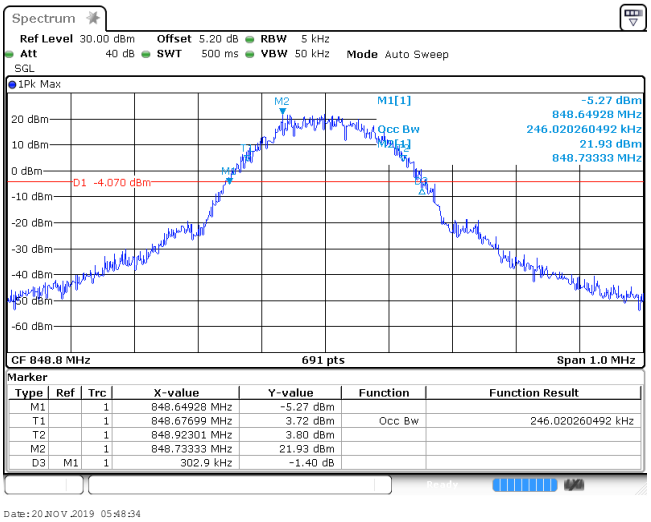

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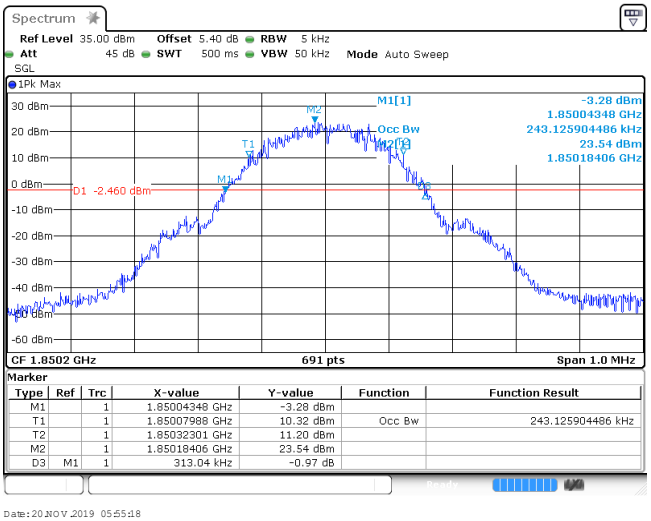

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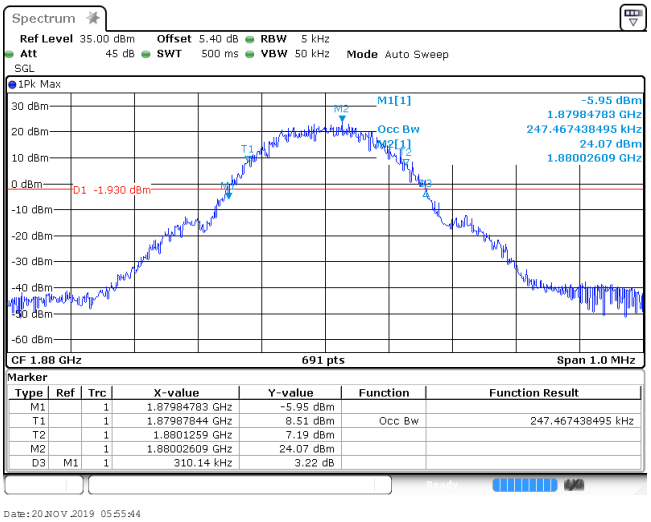

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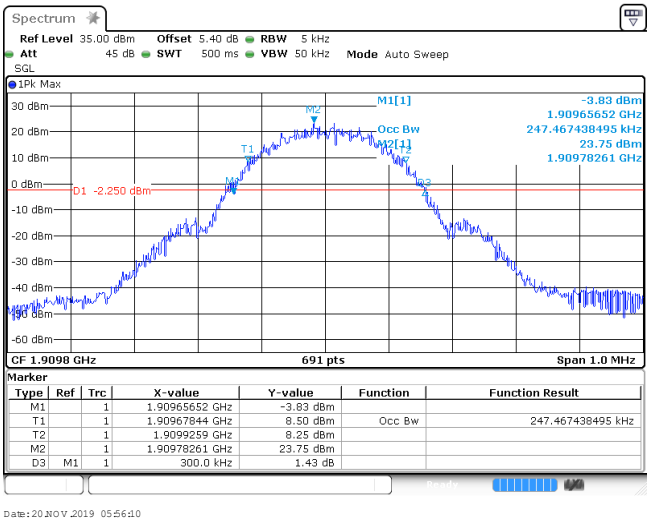

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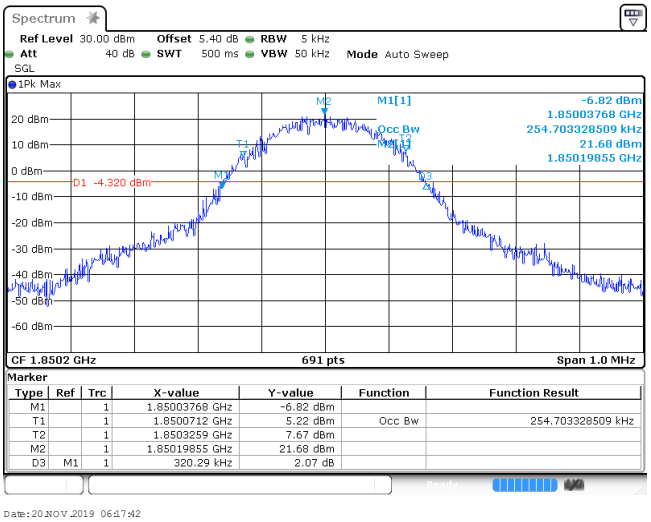

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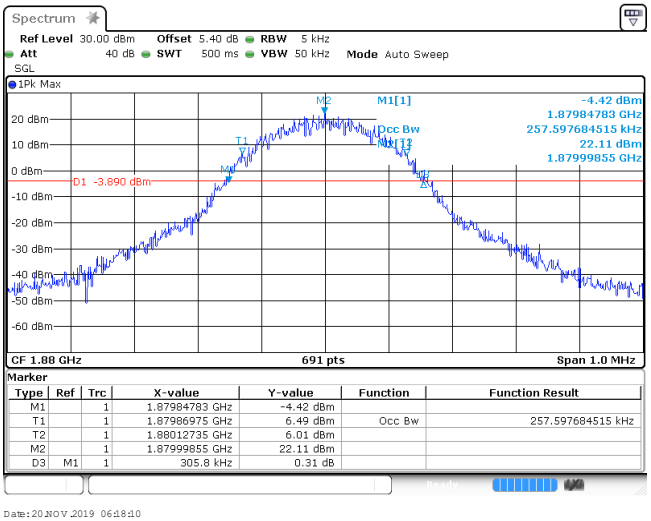

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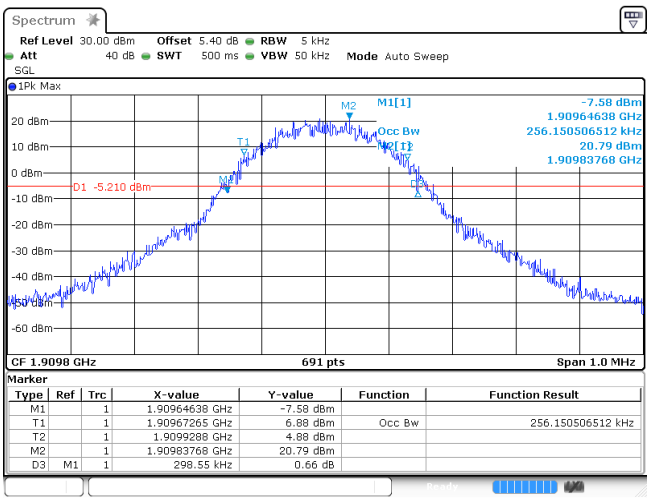

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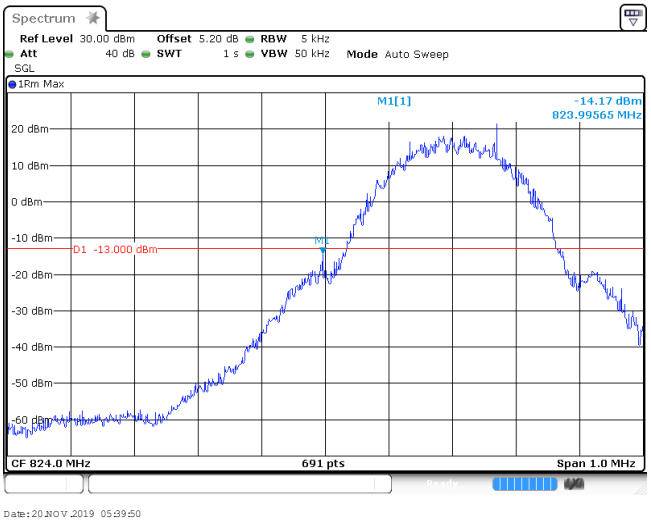
5. Band Edge Compliance

5.1. Test Plots

GSM850_128



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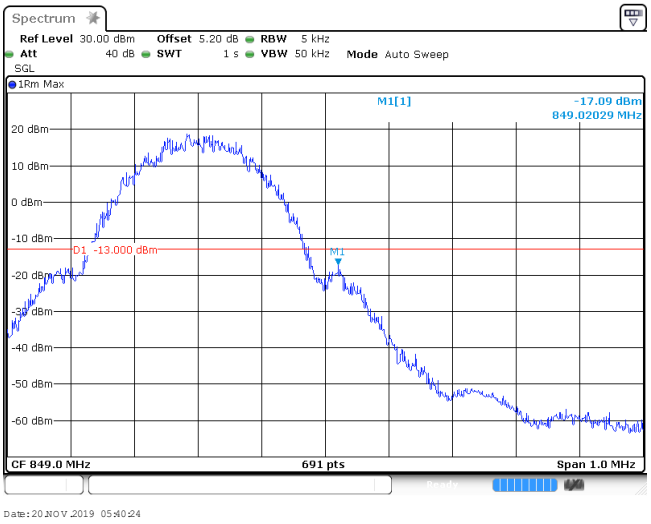

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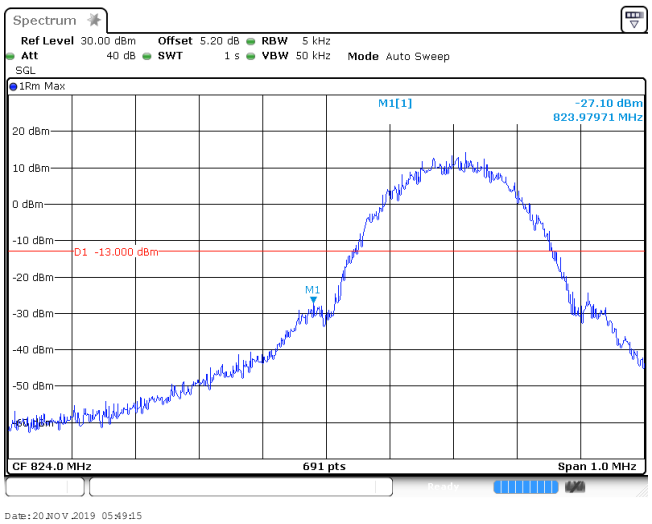

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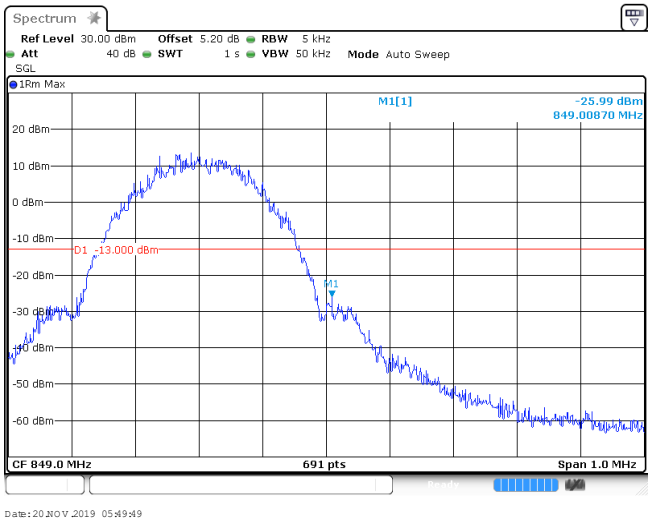

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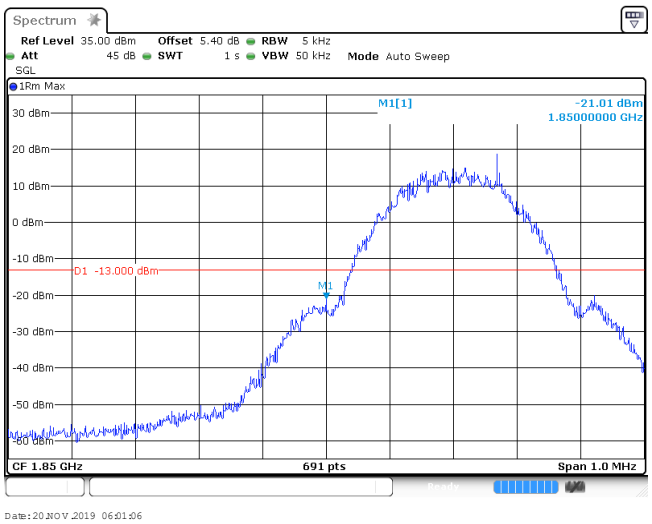

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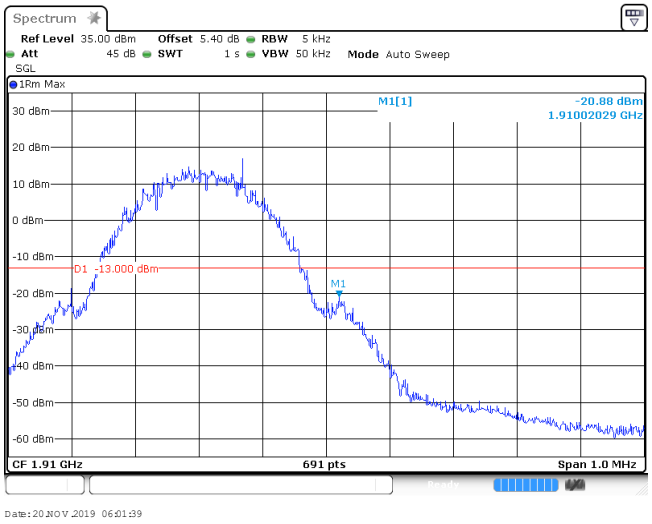

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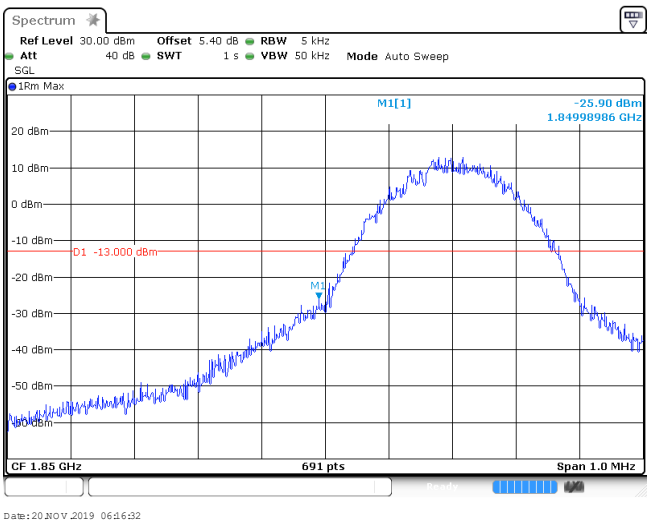

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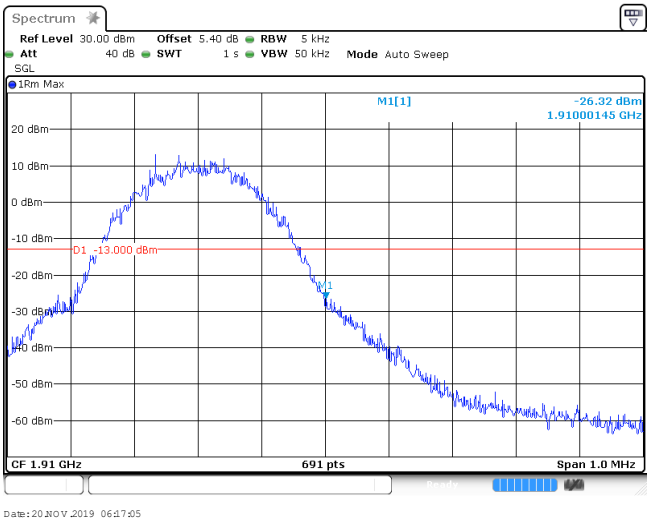

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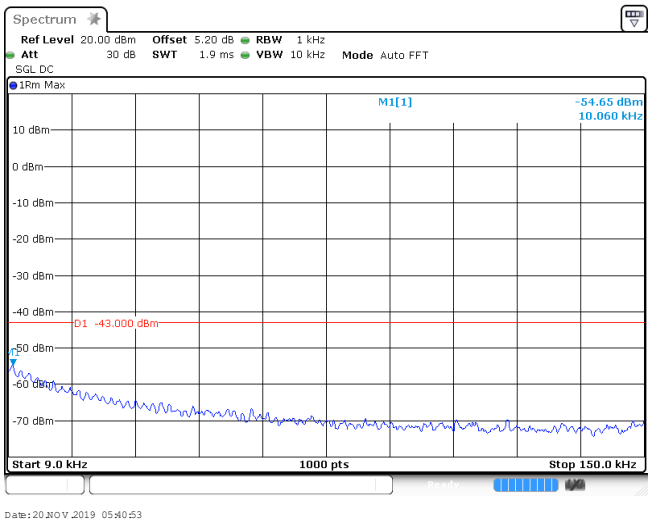
6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

6.1. Test Plots

GSM850_128



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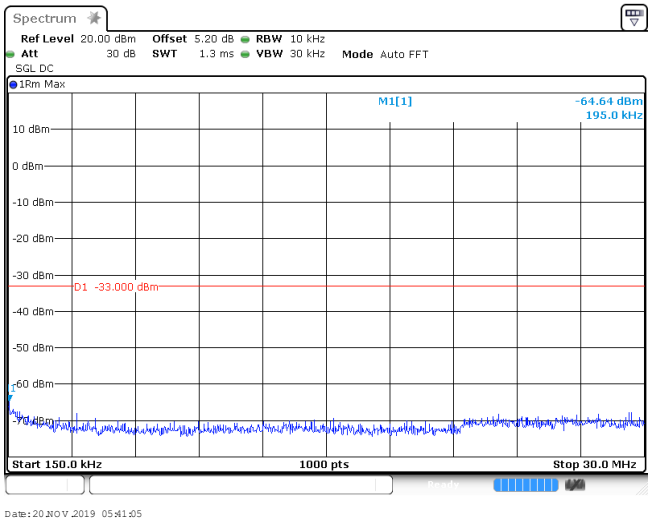

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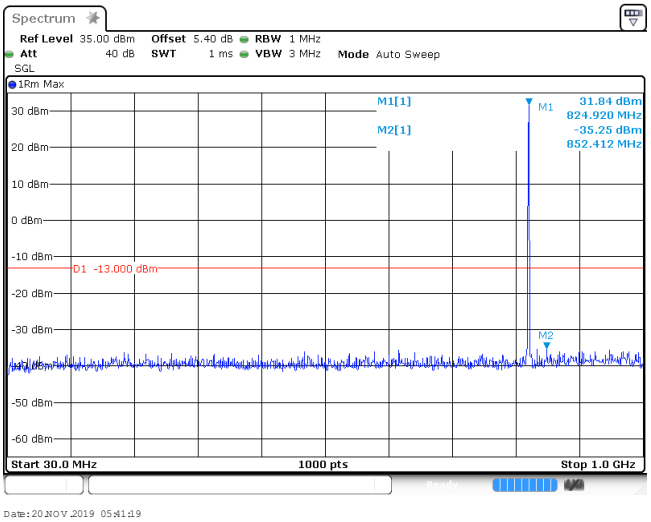

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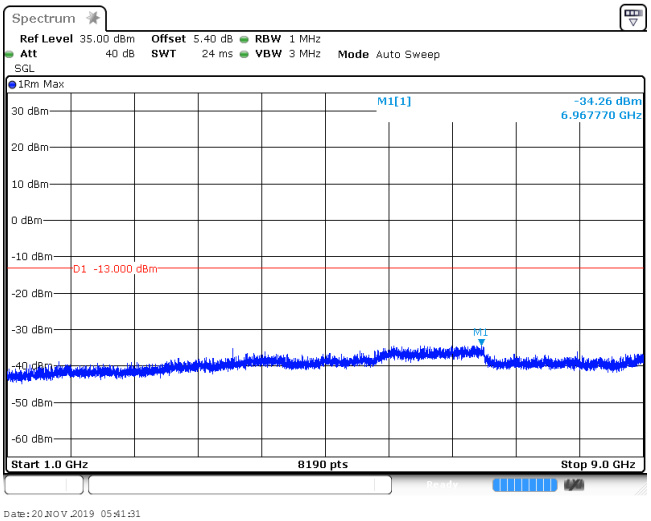

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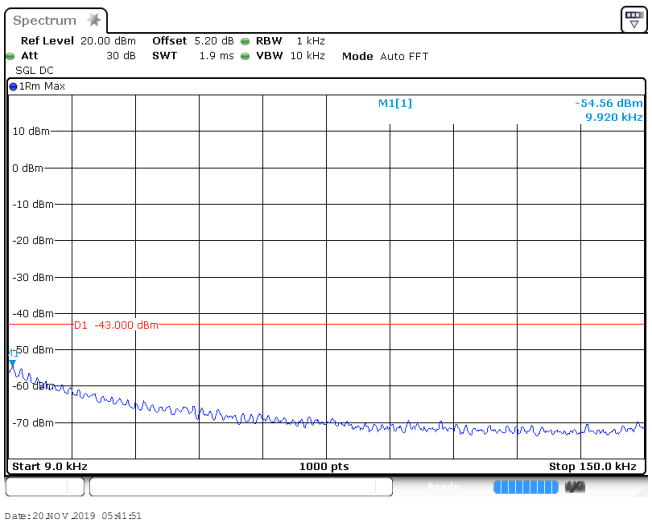

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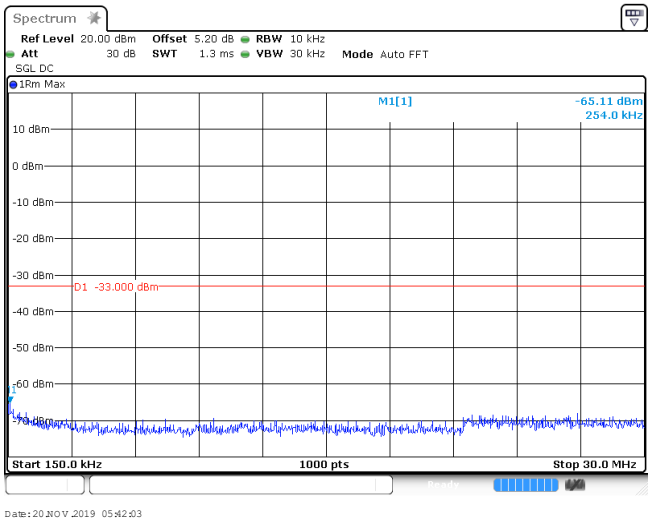

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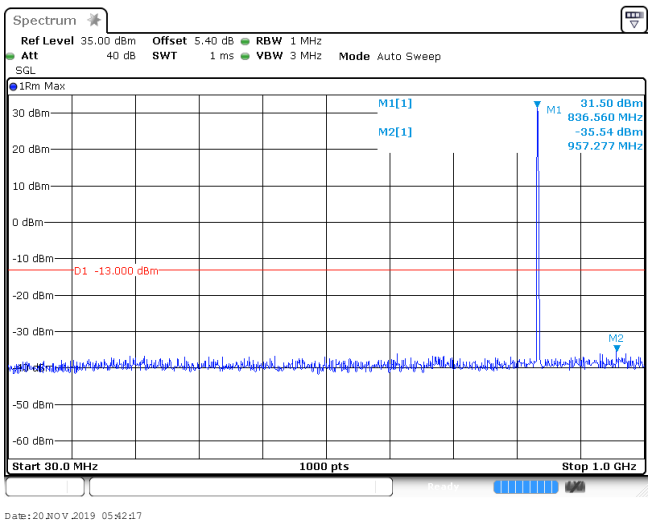

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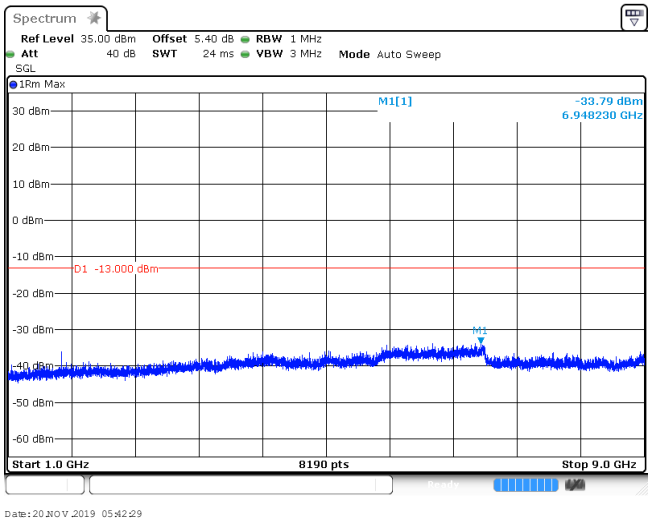

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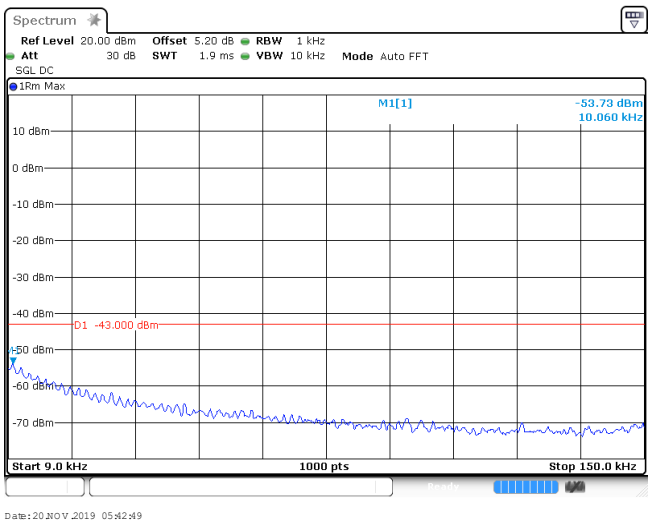

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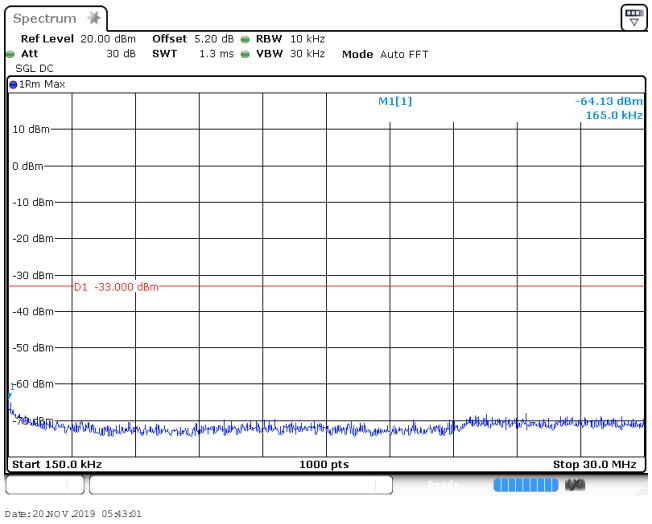

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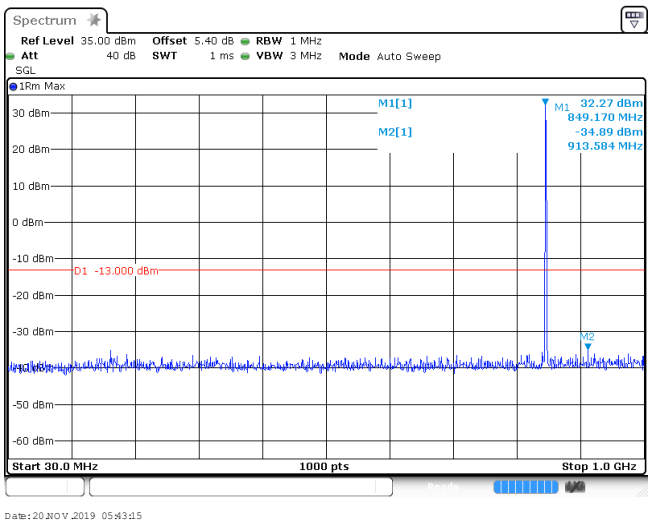

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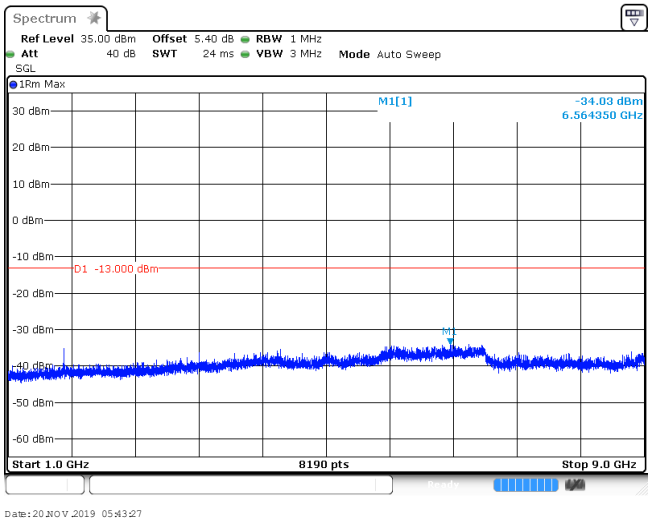

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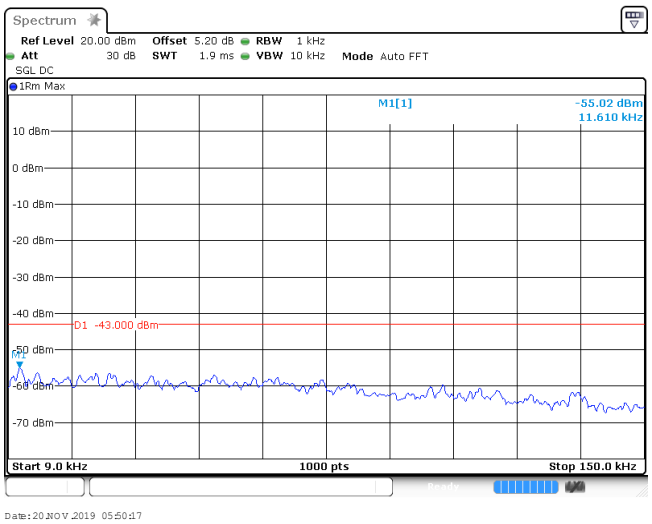

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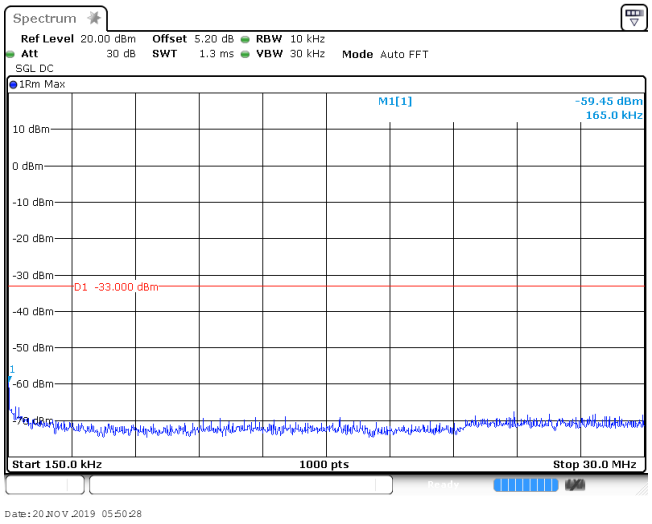

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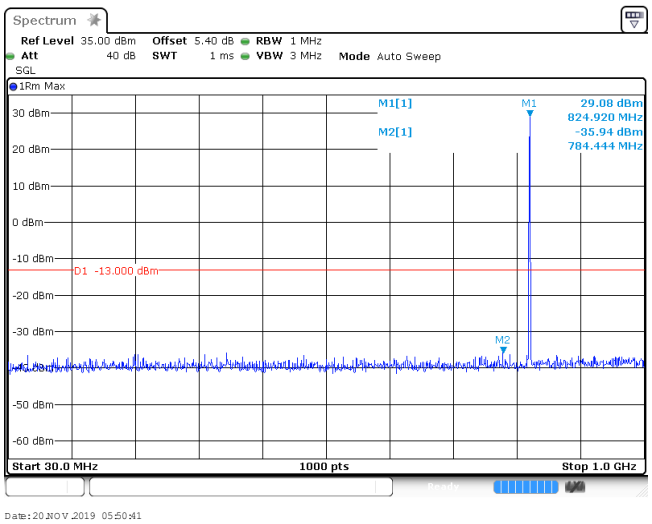

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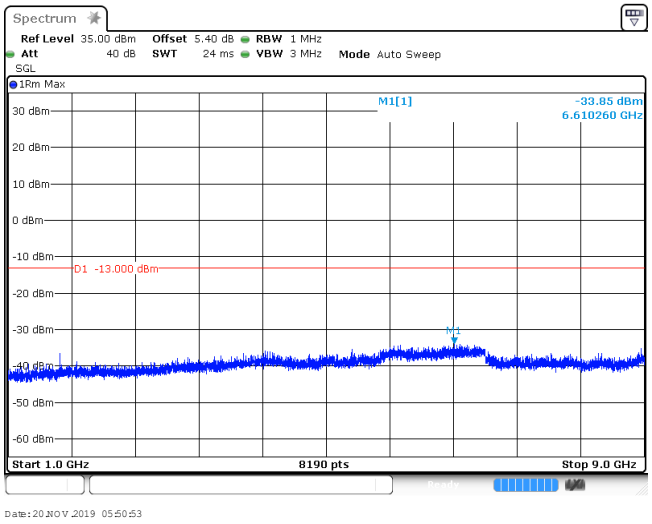

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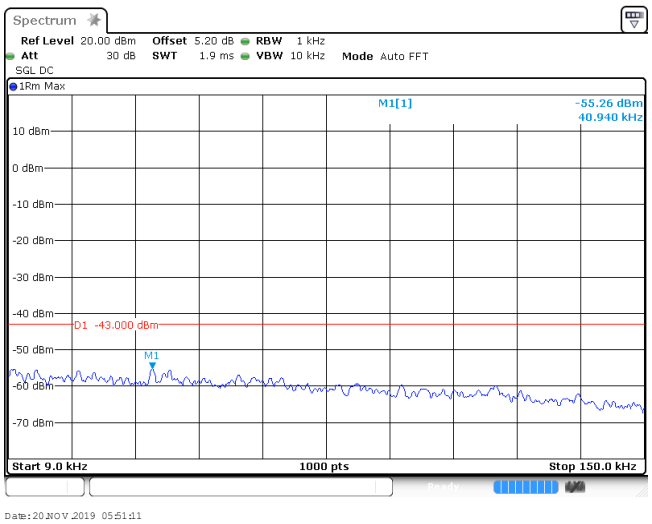

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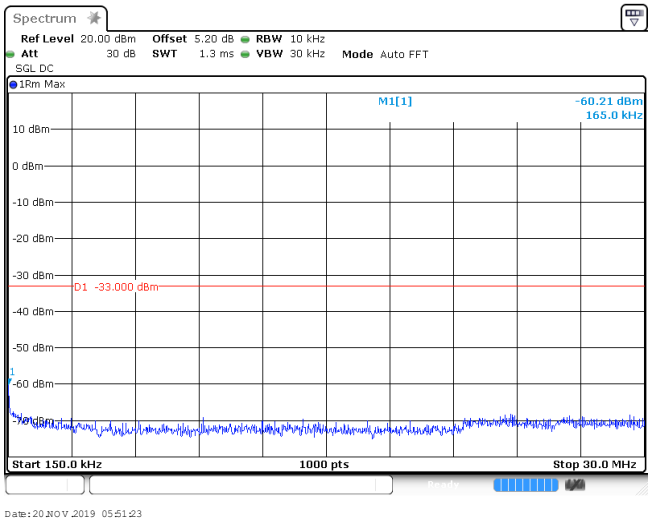

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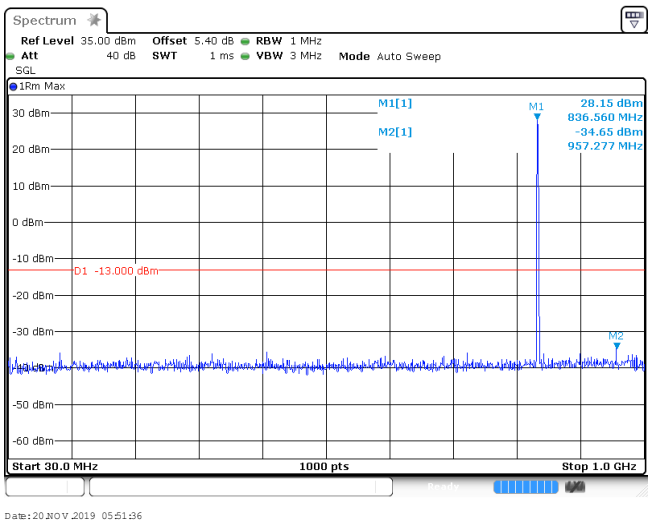

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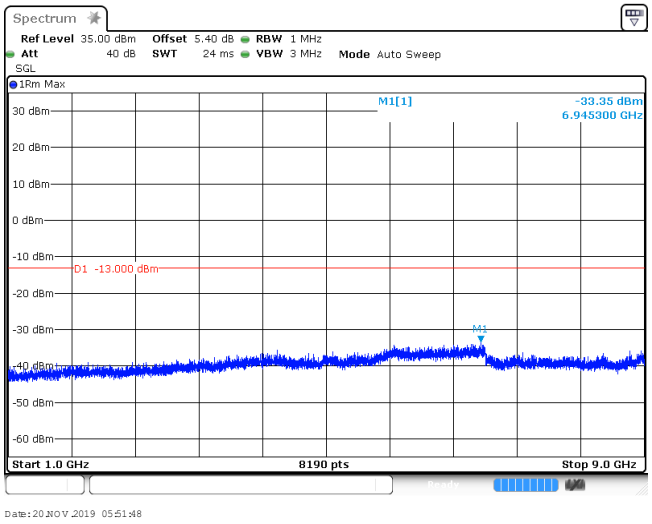

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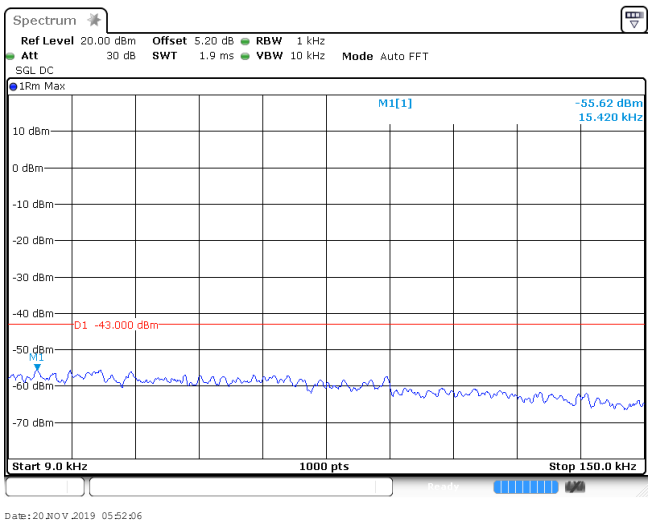

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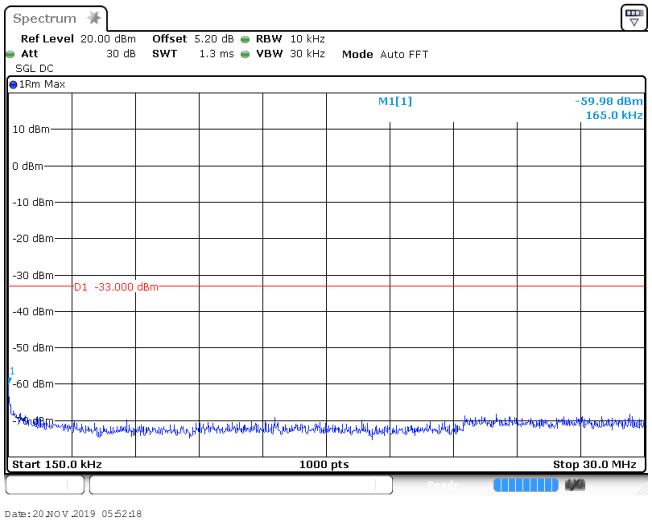

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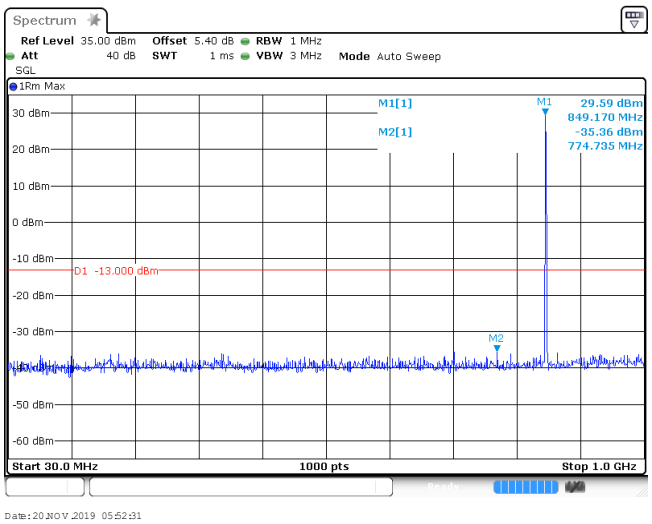

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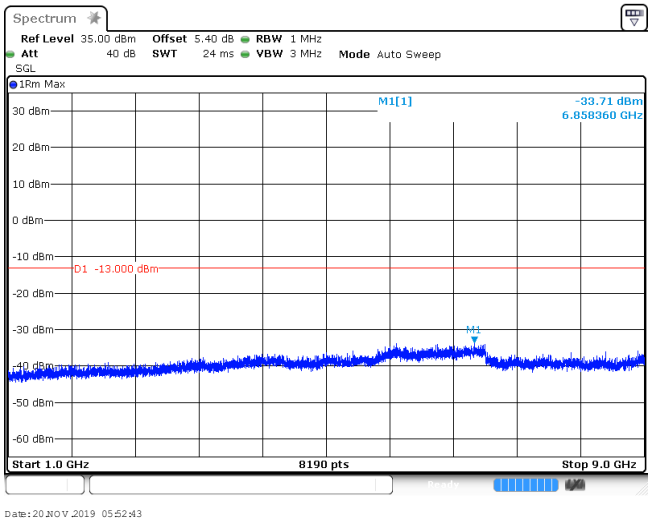

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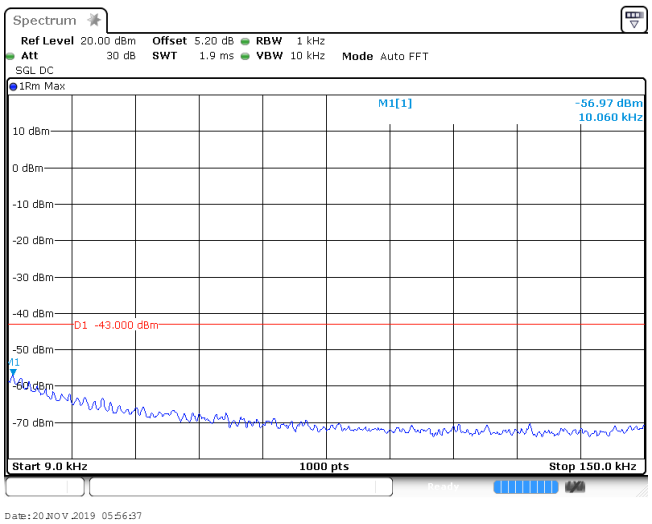

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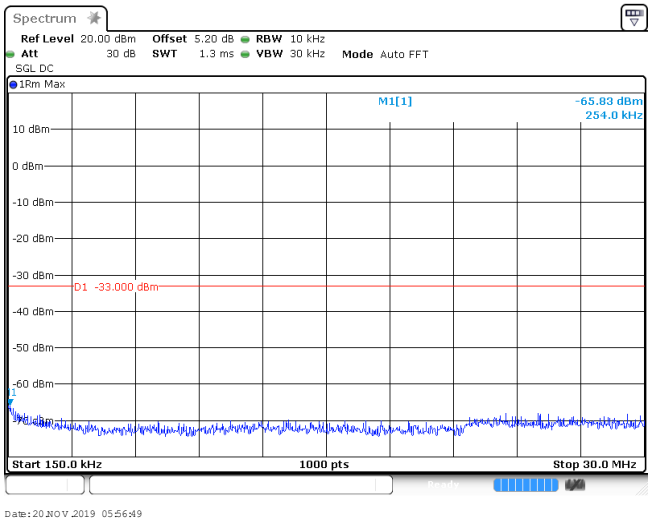

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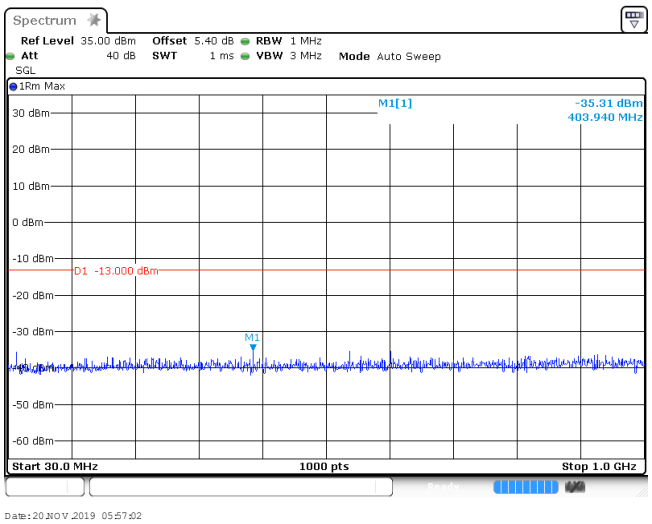

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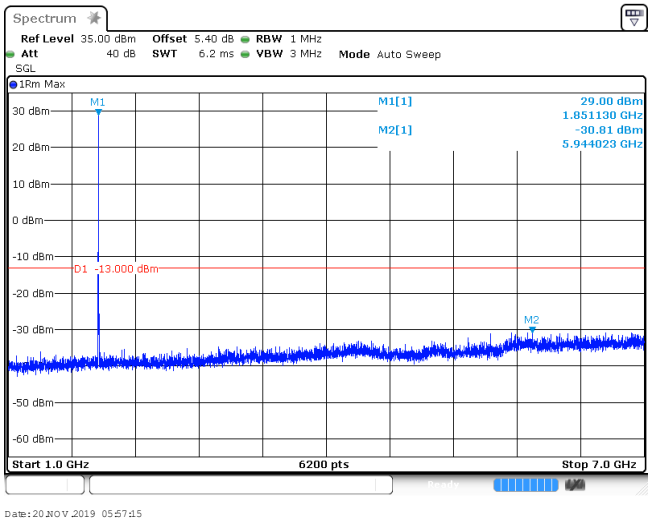

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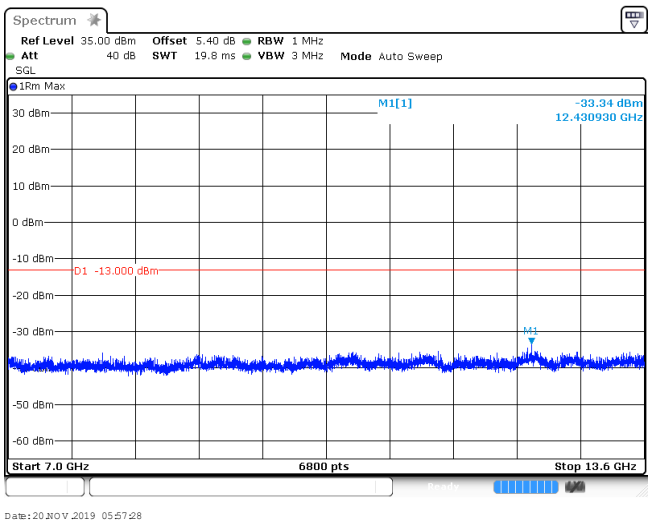

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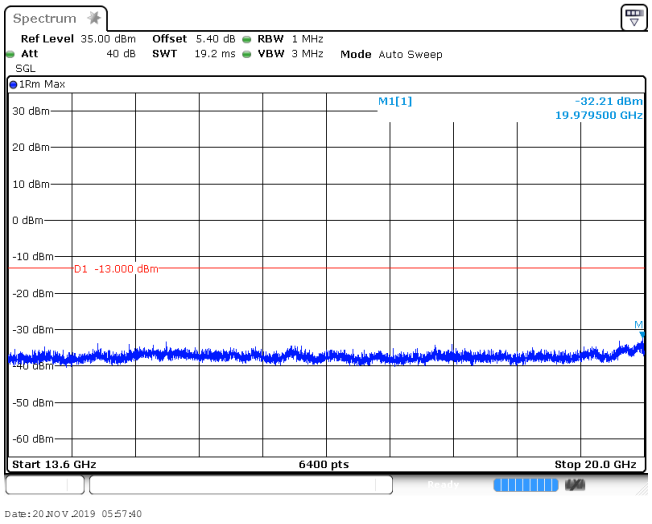

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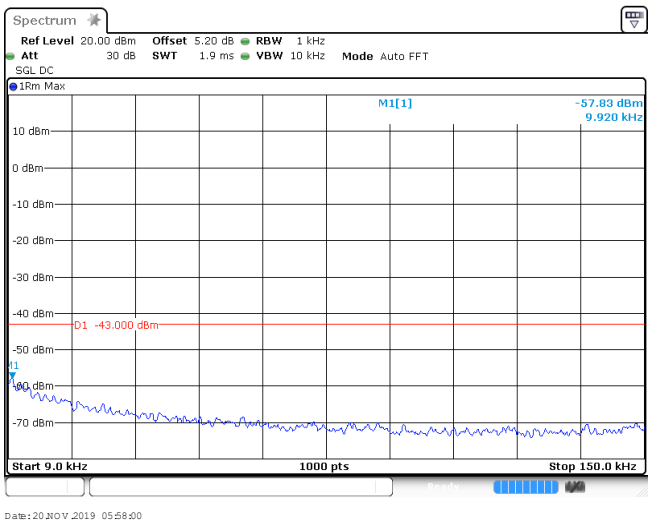

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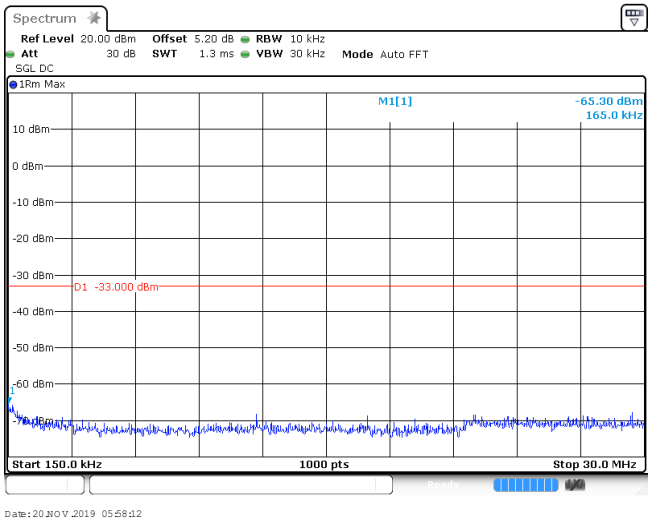

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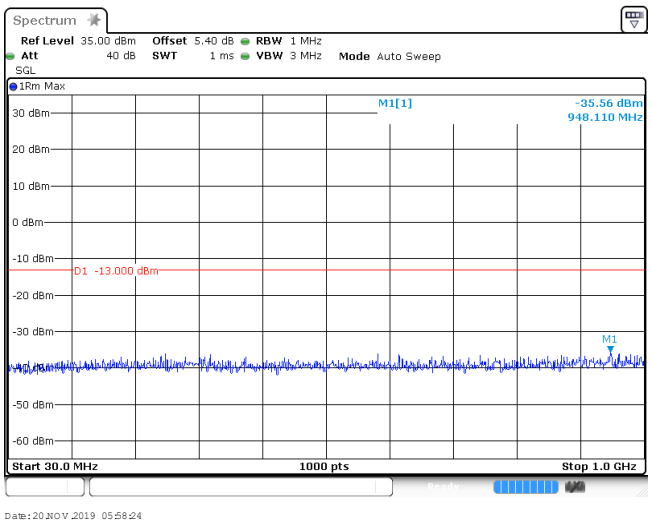

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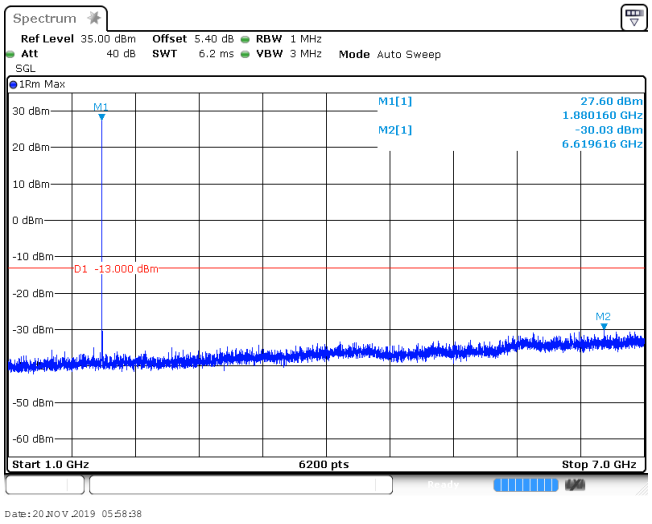

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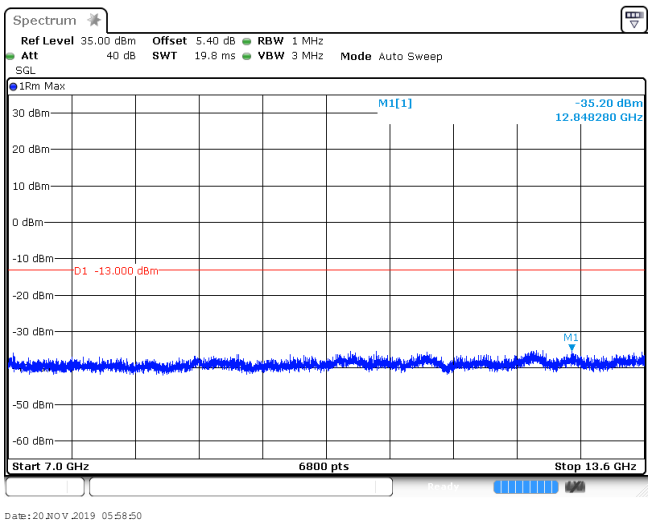

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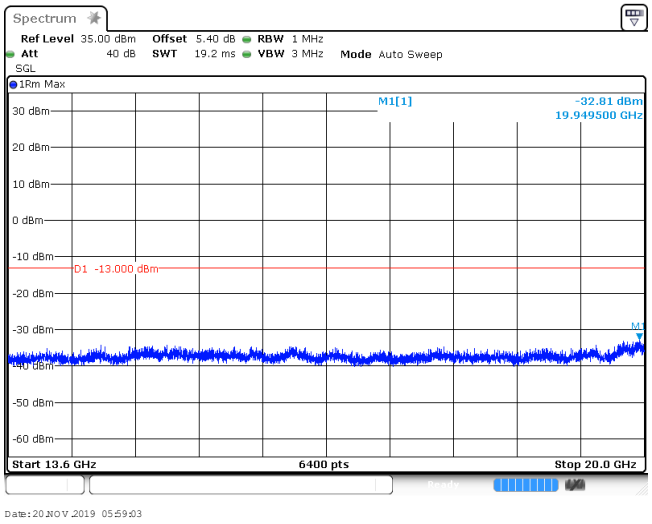

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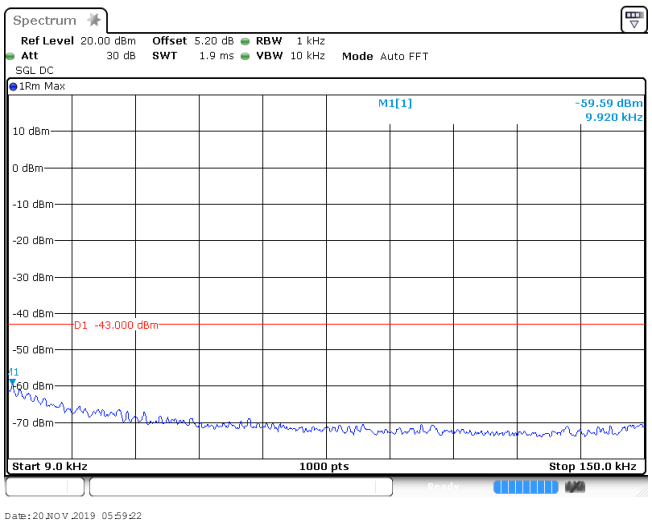

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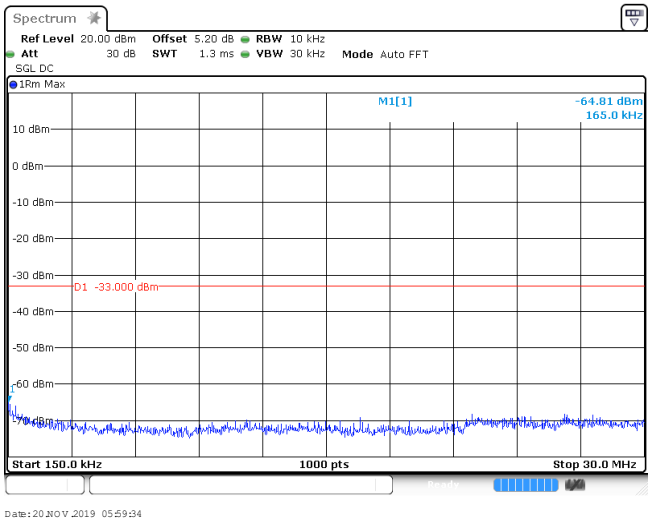

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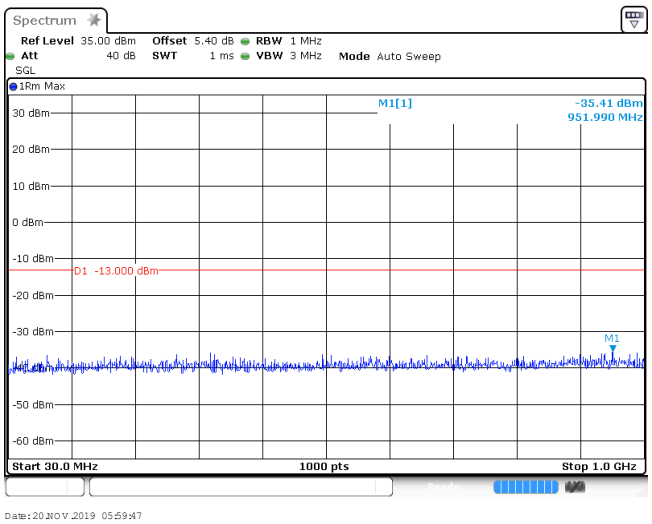

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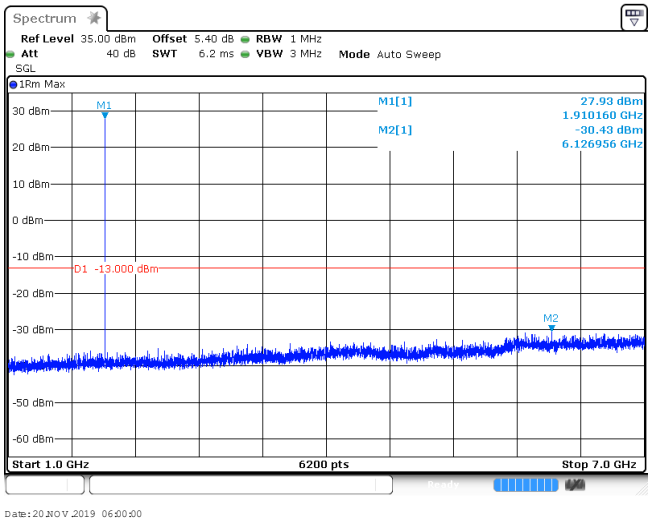

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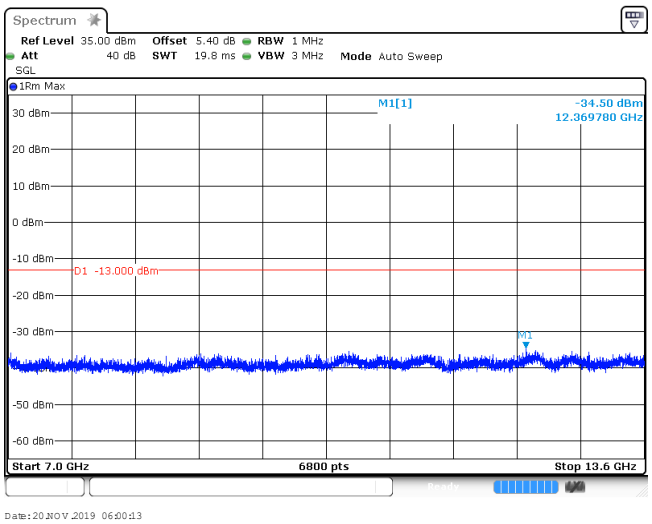

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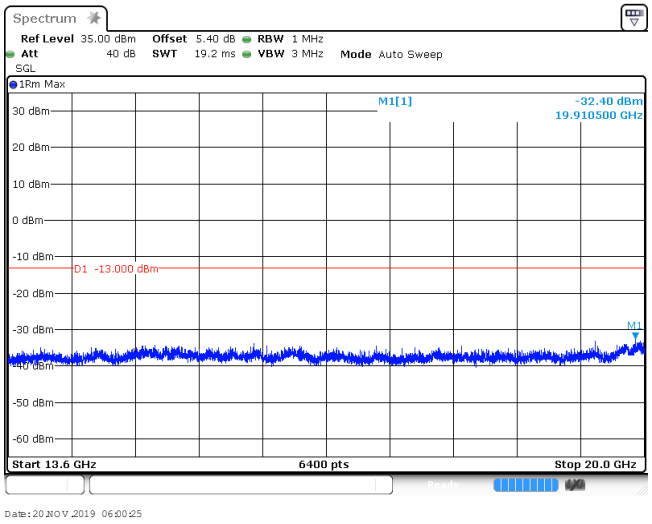

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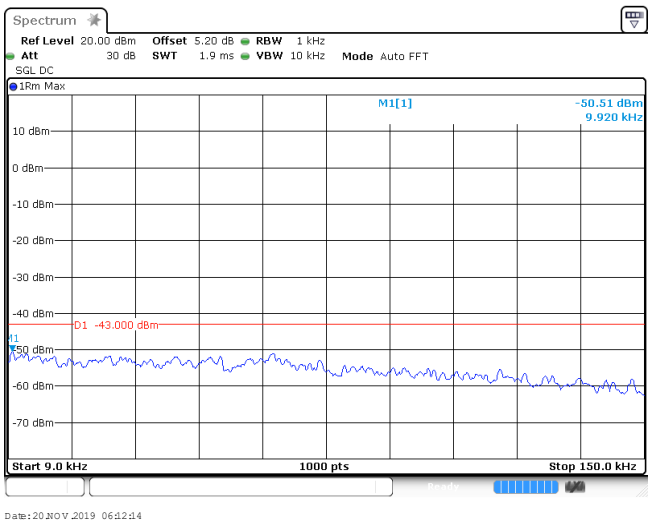

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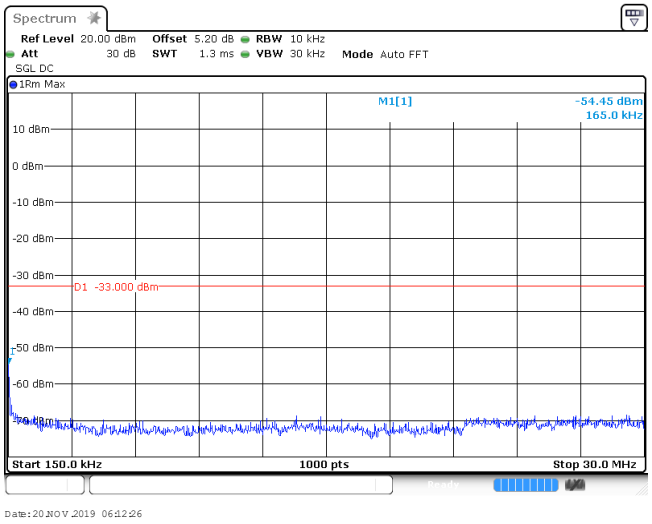

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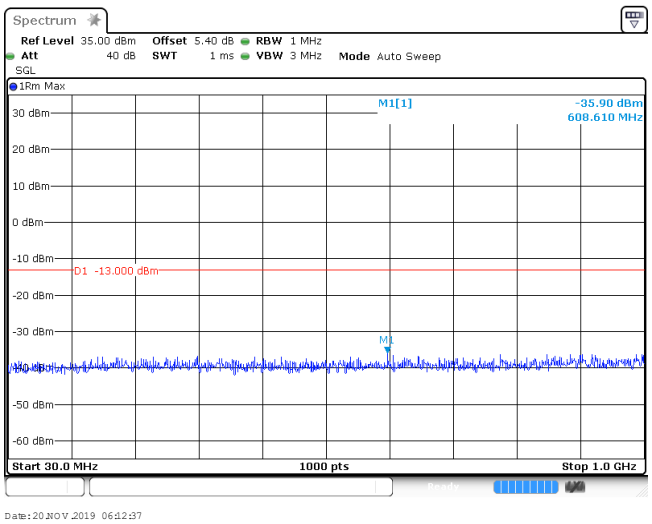

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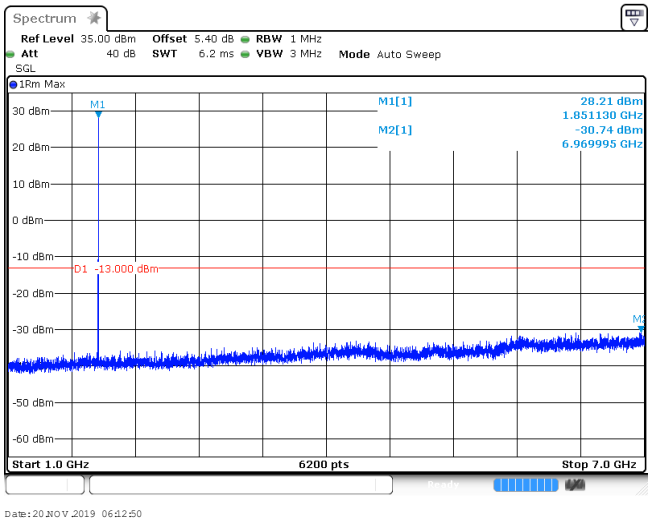

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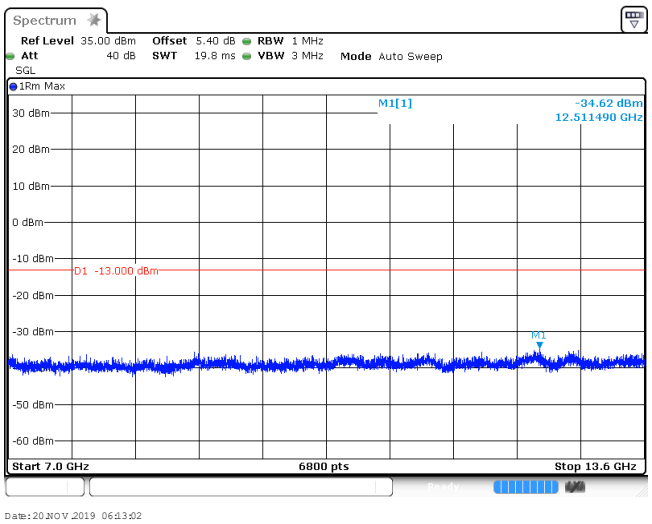

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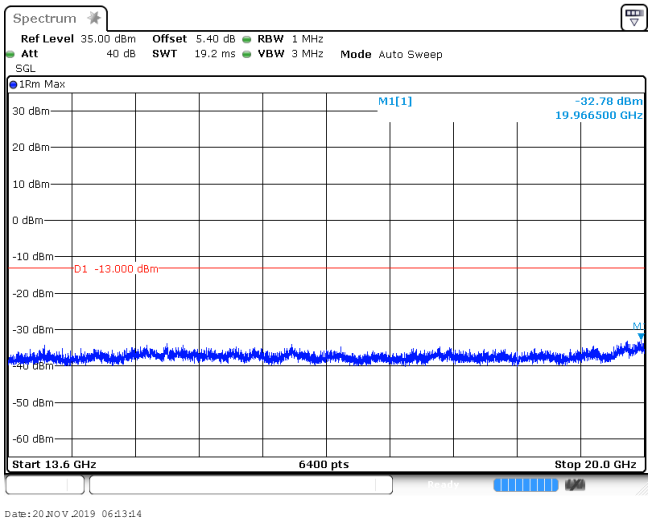

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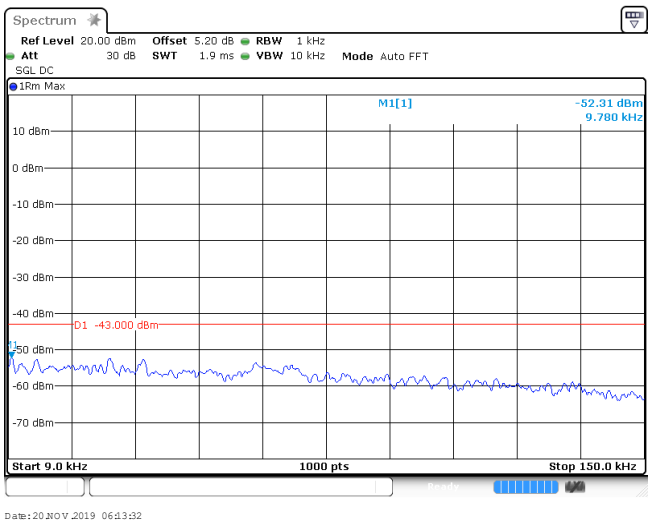

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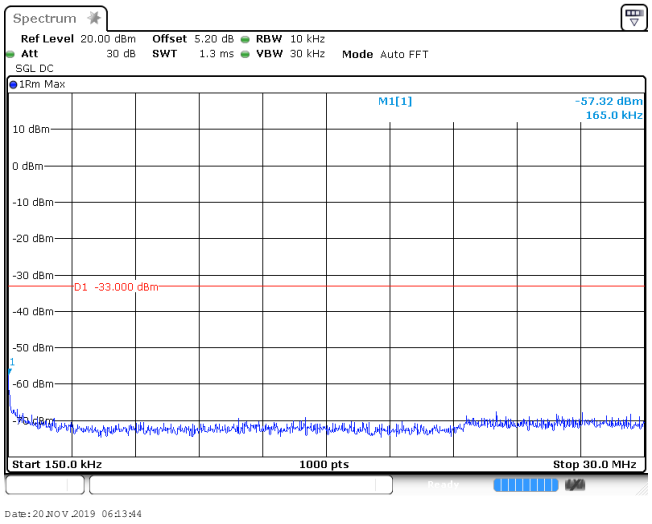

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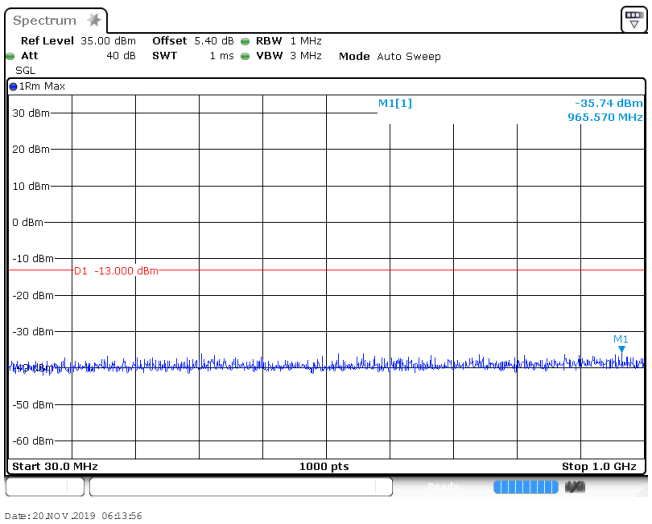

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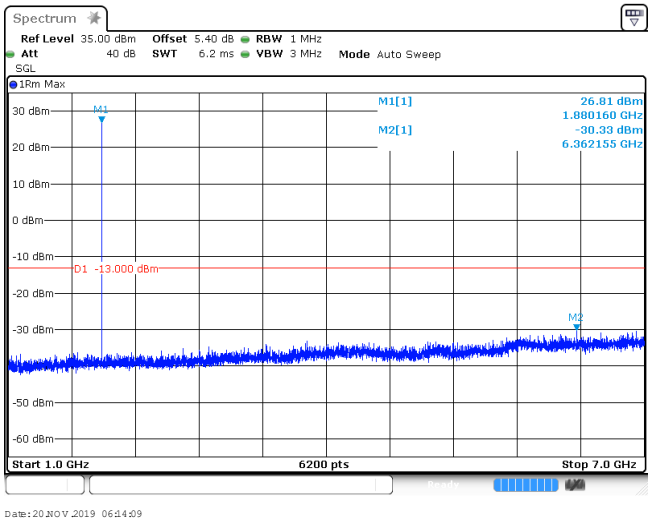

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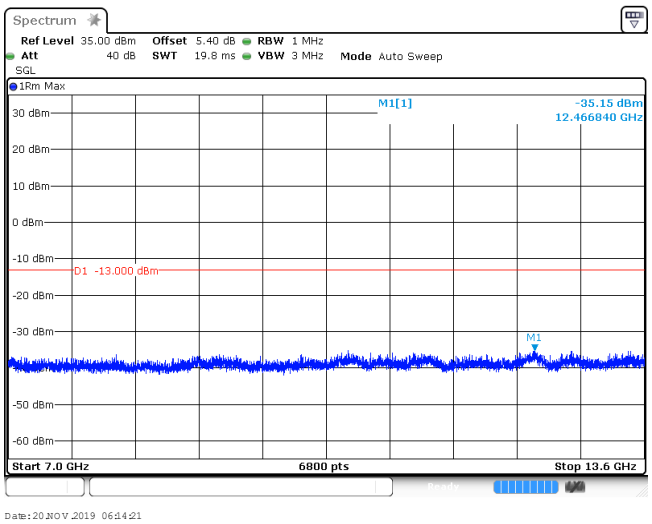

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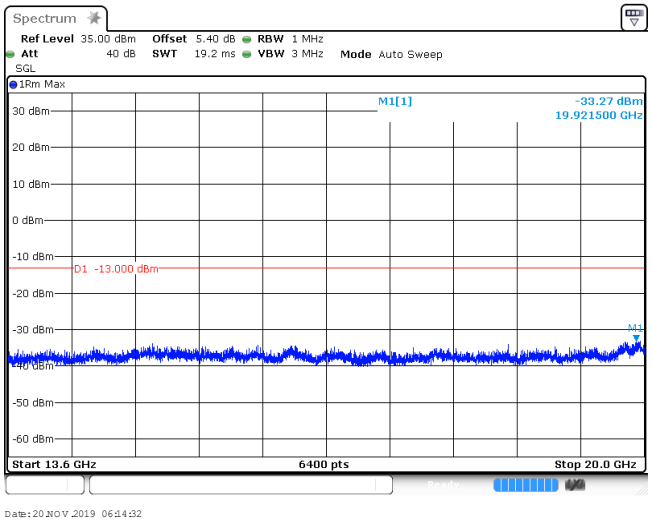

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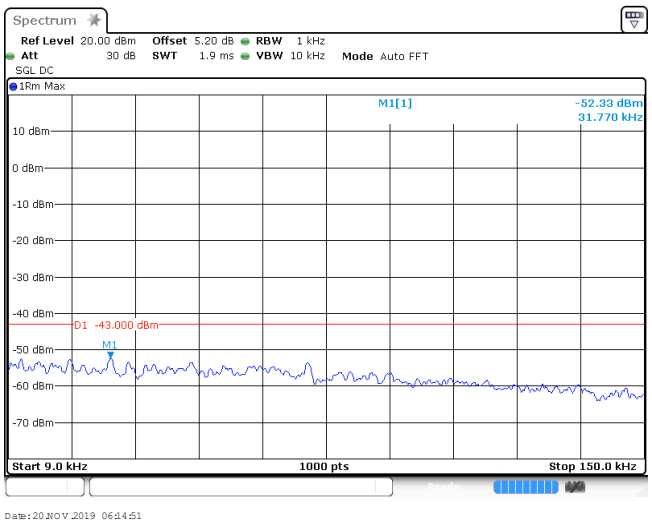

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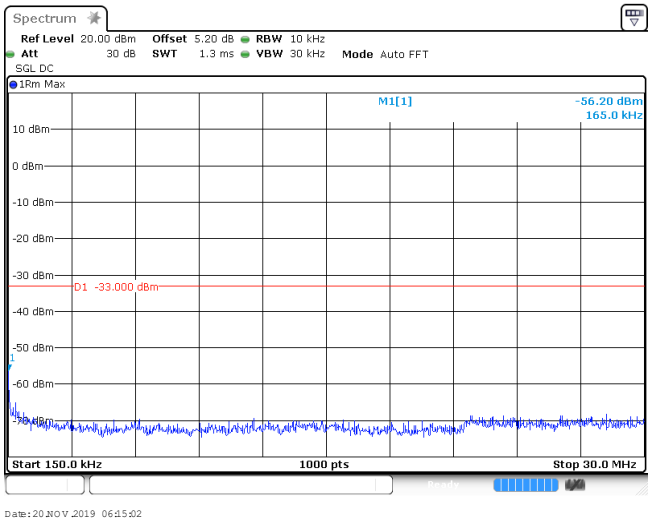

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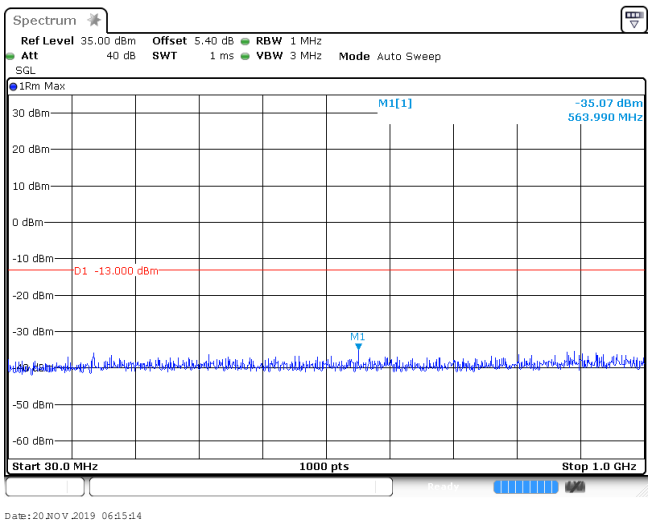

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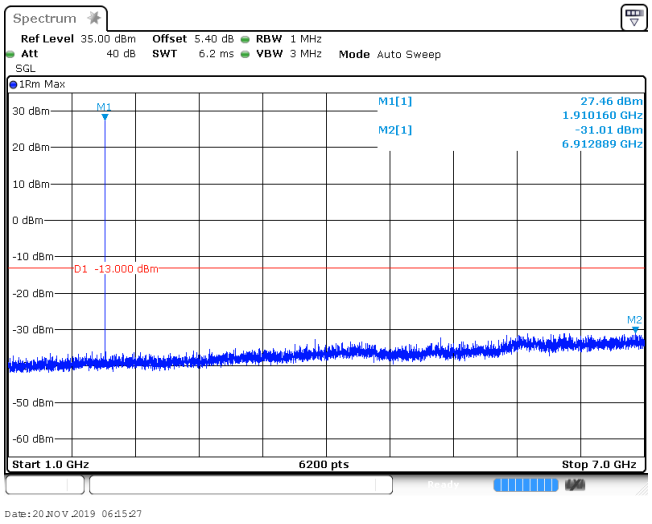

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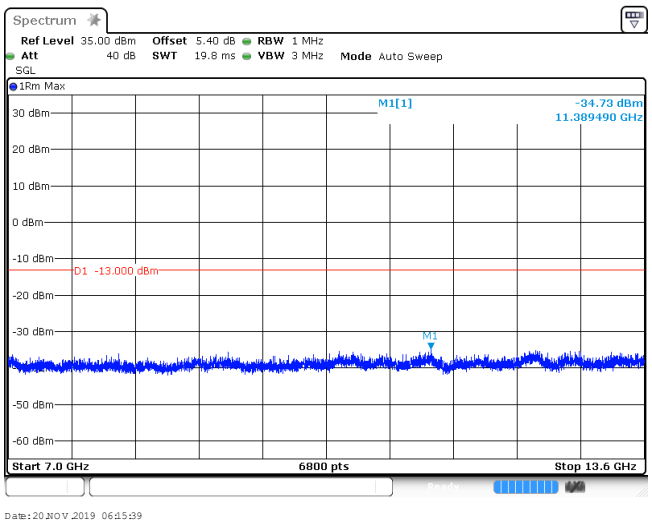

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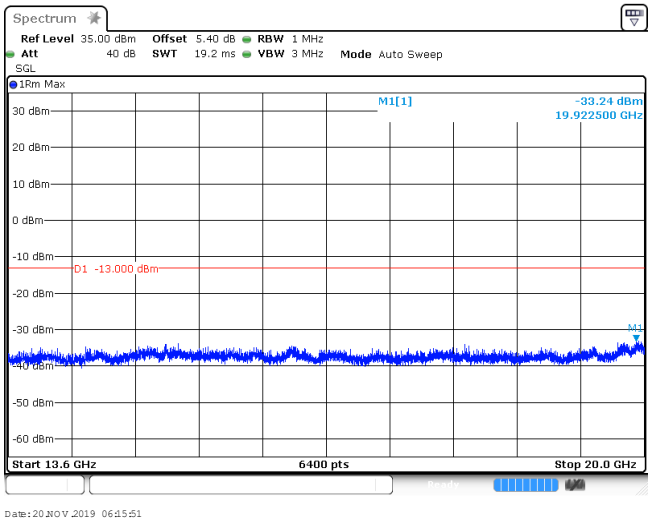

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7. Field Strength of Spurious Radiation

7.1. Test Band = GSM 1900

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
115.5098	-64.76	-13.00	51.76	174	4	Vertical
2698.7397	-38.06	-13.00	25.06	165	105	Vertical
3700.5234	-47.51	-13.00	34.51	184	353	Vertical
5550.0850	-46.45	-13.00	33.45	198	226	Vertical
12951.3317	-36.02	-13.00	23.02	175	321	Vertical
14801.3934	-36.36	-13.00	23.36	192	353	Vertical
40.7675	-64.79	-13.00	51.79	271	134	Horizontal
543.3497	-63.27	-13.00	50.27	256	36	Horizontal
2698.7397	-36.77	-13.00	23.77	284	351	Horizontal
3700.5234	-47.14	-13.00	34.14	247	360	Horizontal
5550.5850	-46.38	-13.00	33.38	296	360	Horizontal
12951.8317	-37.47	-13.00	24.47	254	199	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
112.5511	-64.66	-13.00	51.66	241	129	Vertical
758.4579	-62.24	-13.00	49.24	256	223	Vertical
3760.0253	-45.62	-13.00	32.62	284	349	Vertical
5640.0880	-41.39	-13.00	28.39	274	160	Vertical
13159.8387	-33.03	-13.00	20.03	269	255	Vertical
17994.4998	-33.32	-13.00	20.32	268	35	Vertical
43.9202	-64.62	-13.00	51.62	271	265	Horizontal
833.6852	-61.48	-13.00	48.48	147	265	Horizontal
2699.9400	-36.79	-13.00	23.79	256	82	Horizontal
3760.0253	-44.83	-13.00	31.83	284	358	Horizontal
5640.0880	-44.26	-13.00	31.26	271	358	Horizontal
13160.3387	-37.45	-13.00	24.45	269	200	Horizontal

7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
114.3457	-65.12	-13.00	52.12	271	194	Vertical

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3819.5273	-44.04	-13.00	31.04	254	330	Vertical
5729.0910	-43.94	-13.00	30.94	263	194	Vertical
7639.1546	-47.76	-13.00	34.76	284	36	Vertical
9548.7183	-41.95	-13.00	28.95	275	99	Vertical
13368.8456	-35.99	-13.00	22.99	214	261	Vertical
42.9016	-63.84	-13.00	50.84	174	226	Horizontal
740.5120	-61.39	-13.00	48.39	159	99	Horizontal
2699.9400	-36.89	-13.00	23.89	178	149	Horizontal
3819.5273	-42.91	-13.00	29.91	155	4	Horizontal
5729.5910	-39.63	-13.00	26.63	192	257	Horizontal
13368.8456	-39.85	-13.00	26.85	185	67	Horizontal

7.2. Test Band = GSM 850

7.2.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
112.5026	-63.66	-13.00	50.66	271	258	Vertical
1648.5297	-49.58	-13.00	36.58	254	108	Vertical
2414.6829	-38.19	-13.00	25.19	285	320	Vertical
2472.6945	-52.15	-13.00	39.15	224	122	Vertical
3297.0099	-50.70	-13.00	37.70	263	162	Vertical
4121.0374	-55.30	-13.00	42.30	284	42	Vertical
43.9202	-63.73	-13.00	50.73	199	350	Horizontal
232.2066	-67.29	-13.00	54.29	175	7	Horizontal
1648.1296	-45.98	-13.00	32.98	184	347	Horizontal
2453.0906	-42.11	-13.00	29.11	162	28	Horizontal
3297.0099	-41.66	-13.00	28.66	188	350	Horizontal
4121.0374	-52.24	-13.00	39.24	192	7	Horizontal

7.2.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
113.5697	-63.26	-13.00	50.26	271	278	Vertical
1674.1348	-43.56	-13.00	30.56	256	311	Vertical
2511.1022	-48.97	-13.00	35.97	274	78	Vertical
3348.0116	-55.46	-13.00	42.46	285	143	Vertical
4185.0395	-54.82	-13.00	41.82	261	209	Vertical
17990.4997	-33.13	-13.00	20.13	263	349	Vertical
44.6962	-63.28	-13.00	50.28	174	236	Horizontal
1674.1348	-32.51	-13.00	19.51	195	278	Horizontal

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2511.5023	-42.90	-13.00	29.90	187	164	Horizontal
3348.0116	-50.79	-13.00	37.79	165	269	Horizontal
4185.0395	-49.23	-13.00	36.23	182	342	Horizontal
16399.9467	-37.46	-13.00	24.46	199	139	Horizontal

7.2.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
110.3685	-64.53	-13.00	51.53	184	275	Vertical
1697.7395	-42.33	-13.00	29.33	175	86	Vertical
2546.3093	-47.20	-13.00	34.20	152	82	Vertical
4244.0415	-47.47	-13.00	34.47	196	211	Vertical
11395.2798	-46.04	-13.00	33.04	174	317	Vertical
17985.4995	-33.03	-13.00	20.03	158	78	Vertical
40.3310	-62.38	-13.00	49.38	174	352	Horizontal
1697.7395	-31.59	-13.00	18.59	165	289	Horizontal
2546.7093	-40.00	-13.00	27.00	184	164	Horizontal
3395.5132	-45.80	-13.00	32.80	195	352	Horizontal
4244.0415	-52.68	-13.00	39.68	175	157	Horizontal
16381.4460	-37.46	-13.00	24.46	165	190	Horizontal

Remark:

1) According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
2) The disturbance above 12.75GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

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8. Frequency Stability

8.1. Frequency Error Vs Voltage

Voltage							
BAND	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VL	TN	3.00	0.003643	±2.5	PASS
GSM850	128	VN	TN	3.33	0.004035	±2.5	PASS
GSM850	128	VH	TN	5.68	0.006894	±2.5	PASS
GSM850	190	VL	TN	6.52	0.007796	±2.5	PASS
GSM850	190	VN	TN	8.27	0.009879	±2.5	PASS
GSM850	190	VH	TN	4.81	0.005750	±2.5	PASS
GSM850	251	VL	TN	5.33	0.006276	±2.5	PASS
GSM850	251	VN	TN	1.94	0.002282	±2.5	PASS
GSM850	251	VH	TN	3.97	0.004679	±2.5	PASS
EGPRS850	128	VL	TN	0.45	0.000548	±2.5	PASS
EGPRS850	128	VN	TN	0.87	0.001058	±2.5	PASS
EGPRS850	128	VH	TN	-6.10	-0.007404	±2.5	PASS
EGPRS850	190	VL	TN	0.71	0.000849	±2.5	PASS
EGPRS850	190	VN	TN	-4.91	-0.005866	±2.5	PASS
EGPRS850	190	VH	TN	-0.16	-0.000193	±2.5	PASS
GSM1900	512	VL	TN	11.27	0.006090	±2.5	PASS
GSM1900	512	VN	TN	7.62	0.004118	±2.5	PASS
GSM1900	512	VH	TN	16.30	0.008812	±2.5	PASS
GSM1900	661	VL	TN	10.56	0.005616	±2.5	PASS
GSM1900	661	VN	TN	6.46	0.003435	±2.5	PASS
GSM1900	661	VH	TN	6.78	0.003606	±2.5	PASS
GSM1900	810	VL	TN	1.78	0.000930	±2.5	PASS
GSM1900	810	VN	TN	10.46	0.005477	±2.5	PASS
GSM1900	810	VH	TN	8.72	0.004564	±2.5	PASS
EGPRS1900	512	VL	TN	3.23	0.001745	±2.5	PASS
EGPRS1900	512	VN	TN	-5.59	-0.003019	±2.5	PASS
EGPRS1900	512	VH	TN	1.58	0.000855	±2.5	PASS
EGPRS1900	661	VL	TN	-0.90	-0.000481	±2.5	PASS
EGPRS1900	661	VN	TN	1.78	0.000945	±2.5	PASS
EGPRS1900	661	VH	TN	0.77	0.000412	±2.5	PASS
EGPRS1900	810	VL	TN	-7.10	-0.003719	±2.5	PASS
EGPRS1900	810	VN	TN	-4.94	-0.002587	±2.5	PASS
EGPRS1900	810	VH	TN	-0.84	-0.000440	±2.5	PASS

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8.2. Frequency Error Vs Temperature

Temperature							
BAND	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	-30	0.97	0.001175	±2.5	PASS
GSM850	128	VN	-20	4.07	0.004936	±2.5	PASS
GSM850	128	VN	-10	3.39	0.004113	±2.5	PASS
GSM850	128	VN	0	8.59	0.010420	±2.5	PASS
GSM850	128	VN	10	11.66	0.014141	±2.5	PASS
GSM850	128	VN	20	10.78	0.013084	±2.5	PASS
GSM850	128	VN	30	9.14	0.011086	±2.5	PASS
GSM850	128	VN	40	9.69	0.011752	±2.5	PASS
GSM850	128	VN	50	7.10	0.008618	±2.5	PASS
GSM850	190	VN	-30	6.30	0.007525	±2.5	PASS
GSM850	190	VN	-20	2.26	0.002701	±2.5	PASS
GSM850	190	VN	-10	3.07	0.003666	±2.5	PASS
GSM850	190	VN	0	4.75	0.005673	±2.5	PASS
GSM850	190	VN	10	5.17	0.006175	±2.5	PASS
GSM850	190	VN	20	8.36	0.009995	±2.5	PASS
GSM850	190	VN	30	3.87	0.004631	±2.5	PASS
GSM850	190	VN	40	-2.07	-0.002470	±2.5	PASS
GSM850	190	VN	50	-2.62	-0.003126	±2.5	PASS
GSM850	251	VN	-30	-0.19	-0.000228	±2.5	PASS
GSM850	251	VN	-20	2.36	0.002777	±2.5	PASS
GSM850	251	VN	-10	5.36	0.006314	±2.5	PASS
GSM850	251	VN	0	5.78	0.006809	±2.5	PASS
GSM850	251	VN	10	1.39	0.001636	±2.5	PASS
GSM850	251	VN	20	-0.16	-0.000190	±2.5	PASS
GSM850	251	VN	30	2.97	0.003499	±2.5	PASS
GSM850	251	VN	40	4.52	0.005325	±2.5	PASS
GSM850	251	VN	50	6.59	0.007760	±2.5	PASS
EGPRS850	128	VN	-30	-3.42	-0.004152	±2.5	PASS
EGPRS850	128	VN	-20	-0.13	-0.000157	±2.5	PASS
EGPRS850	128	VN	-10	1.07	0.001293	±2.5	PASS
EGPRS850	128	VN	0	-1.45	-0.001763	±2.5	PASS
EGPRS850	128	VN	10	2.58	0.003134	±2.5	PASS
EGPRS850	128	VN	20	13.33	0.016178	±2.5	PASS
EGPRS850	128	VN	30	9.65	0.011713	±2.5	PASS
EGPRS850	128	VN	40	4.29	0.005210	±2.5	PASS
EGPRS850	128	VN	50	8.49	0.010302	±2.5	PASS
EGPRS850	190	VN	-30	-0.16	-0.000193	±2.5	PASS
EGPRS850	190	VN	-20	-3.84	-0.004592	±2.5	PASS
EGPRS850	190	VN	-10	-1.55	-0.001852	±2.5	PASS
EGPRS850	190	VN	0	-1.68	-0.002007	±2.5	PASS
EGPRS850	190	VN	10	-0.90	-0.001081	±2.5	PASS

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EGPRS850	190	VN	20	5.46	0.006522	±2.5	PASS
EGPRS850	190	VN	30	1.58	0.001891	±2.5	PASS
EGPRS850	190	VN	40	1.49	0.001775	±2.5	PASS
EGPRS850	190	VN	50	4.36	0.005210	±2.5	PASS
GSM1900	512	VN	-30	8.27	0.004467	±2.5	PASS
GSM1900	512	VN	-20	9.52	0.005148	±2.5	PASS
GSM1900	512	VN	-10	8.43	0.004554	±2.5	PASS
GSM1900	512	VN	0	20.60	0.011133	±2.5	PASS
GSM1900	512	VN	10	25.44	0.013751	±2.5	PASS
GSM1900	512	VN	20	28.35	0.015321	±2.5	PASS
GSM1900	512	VN	30	25.47	0.013768	±2.5	PASS
GSM1900	512	VN	40	16.95	0.009161	±2.5	PASS
GSM1900	512	VN	50	18.73	0.010121	±2.5	PASS
GSM1900	661	VN	-30	11.33	0.006028	±2.5	PASS
GSM1900	661	VN	-20	8.91	0.004740	±2.5	PASS
GSM1900	661	VN	-10	9.30	0.004946	±2.5	PASS
GSM1900	661	VN	0	16.47	0.008758	±2.5	PASS
GSM1900	661	VN	10	18.02	0.009583	±2.5	PASS
GSM1900	661	VN	20	15.59	0.008295	±2.5	PASS
GSM1900	661	VN	30	13.30	0.007075	±2.5	PASS
GSM1900	661	VN	40	5.81	0.003091	±2.5	PASS
GSM1900	661	VN	50	12.46	0.006629	±2.5	PASS
GSM1900	810	VN	-30	9.52	0.004987	±2.5	PASS
GSM1900	810	VN	-20	5.23	0.002739	±2.5	PASS
GSM1900	810	VN	-10	5.84	0.003060	±2.5	PASS
GSM1900	810	VN	0	7.94	0.004159	±2.5	PASS
GSM1900	810	VN	10	8.23	0.004311	±2.5	PASS
GSM1900	810	VN	20	-13.46	-0.007050	±2.5	PASS
GSM1900	810	VN	30	3.58	0.001876	±2.5	PASS
GSM1900	810	VN	40	15.21	0.007962	±2.5	PASS
GSM1900	810	VN	50	5.36	0.002806	±2.5	PASS
EGPRS1900	512	VN	-30	5.78	0.003124	±2.5	PASS
EGPRS1900	512	VN	-20	6.59	0.003560	±2.5	PASS
EGPRS1900	512	VN	-10	8.65	0.004677	±2.5	PASS
EGPRS1900	512	VN	0	8.23	0.004450	±2.5	PASS
EGPRS1900	512	VN	10	20.70	0.011185	±2.5	PASS
EGPRS1900	512	VN	20	24.67	0.013332	±2.5	PASS
EGPRS1900	512	VN	30	21.28	0.011499	±2.5	PASS
EGPRS1900	512	VN	40	28.12	0.015199	±2.5	PASS
EGPRS1900	512	VN	50	19.82	0.010714	±2.5	PASS
EGPRS1900	661	VN	-30	0.32	0.000172	±2.5	PASS
EGPRS1900	661	VN	-20	2.42	0.001288	±2.5	PASS
EGPRS1900	661	VN	-10	2.26	0.001202	±2.5	PASS
EGPRS1900	661	VN	0	1.29	0.000687	±2.5	PASS
EGPRS1900	661	VN	10	10.69	0.005684	±2.5	PASS
EGPRS1900	661	VN	20	10.27	0.005461	±2.5	PASS
EGPRS1900	661	VN	30	9.23	0.004912	±2.5	PASS

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EGPRS1900	661	VN	40	12.14	0.006457	±2.5	PASS
EGPRS1900	661	VN	50	11.27	0.005993	±2.5	PASS
EGPRS1900	810	VN	-30	2.62	0.001369	±2.5	PASS
EGPRS1900	810	VN	-20	-2.16	-0.001133	±2.5	PASS
EGPRS1900	810	VN	-10	6.10	0.003195	±2.5	PASS
EGPRS1900	810	VN	0	-1.10	-0.000575	±2.5	PASS
EGPRS1900	810	VN	10	7.65	0.004007	±2.5	PASS
EGPRS1900	810	VN	20	12.69	0.006644	±2.5	PASS
EGPRS1900	810	VN	30	8.88	0.004649	±2.5	PASS
EGPRS1900	810	VN	40	17.63	0.009230	±2.5	PASS
EGPRS1900	810	VN	50	6.75	0.003533	±2.5	PASS

The End

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